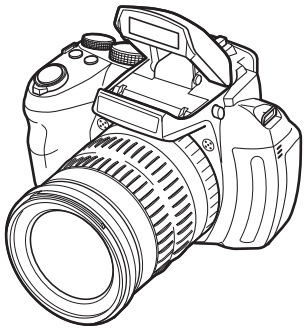
FUJIFILM

DIGITAL CAMERA

FINEPIX HS30EXR

Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM digital camera and the supplied software. Be sure that you have read and understood its contents and the warnings in "For Your Safety" (📖 ii) before using the camera.



For information on related products, visit our website at
http://www.fujifilm.com/products/digital_cameras/index.html

BL01656-201 EN

Before You Begin
First Steps
Basic Photography and Playback
More on Photography
More on Playback
Movies
Connections
Menus
Technical Notes
Troubleshooting
Appendix

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IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions:** All the safety and operating instructions should be read before the appliance is operated.
- **Retain Instructions:** The safety and operating instructions should be retained for future reference.
- **Heed Warnings:** All warnings on the appliance and in the operating instructions should be adhered to.
- **Follow Instructions:** All operating and use instructions should be followed.

Installation

Power Sources: This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

Grounding or Polarization: This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Alternate Warnings: This video product is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

Overloading: Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

Ventilation: Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered.

The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface.

This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

This video product should never be placed near or over a radiator or heat register.

Attachments: Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

Water and Moisture: Do not use this video product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Power-Cord Protection: Power-Supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

Accessories: Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Antennas

Outdoor Antenna Grounding: If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

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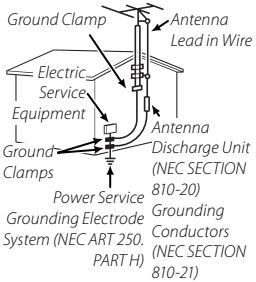
Power Lines: An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


Ground Clamp
Antenna Lead in Wire
Electric Service Equipment
Ground Clamps
Antenna Discharge Unit (NEC SECTION 810-20)
Power Service Grounding Electrode System (NEC ART 250. PART H)
Grounding Conductors (NEC SECTION 810-21)

Use

Cleaning: Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Object and Liquid Entry: Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

Lightning: For added protection for this video product receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

Service

Servicing: Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service: Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
When the power-supply cord or plug is damaged.
If liquid has been spilled, or objects have fallen into the video product.
If the video product has been exposed to rain or water.
If the video product has been dropped or the cabinet has been damaged.
If the video product does not operate normally be following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
When the video product exhibits a distinct change in performance - this indicates a need for service.

Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check: Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

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Be sure to read this notes before using

Safety Notes

- Make sure that you use your camera correctly. Read these Safety Notes and your *Owner's Manual* carefully before use.
- After reading these Safety Notes, store them in a safe place.

About the Icons

The icons shown below are used in this document to indicate the severity of the injury or damage that can result if the information indicated by the icon is ignored and the product is used incorrectly as a result.

WARNING	This icon indicates that death or serious injury can result if the information is ignored.
CAUTION	This icon indicates that personal injury or material damage can result if the information is ignored.

The icons shown below are used to indicate the nature of the information which is to be observed.

	Triangular icons tell you that this information requires attention ("important").
	Circular icons with a diagonal bar tell you that the action indicated is prohibited ("Prohibited").
	Filled circles with an exclamation mark tell you an action that must be performed ("Required").

⚠ WARNING

Unplug from power socket.

If a problem arises, turn the camera off, remove the battery, disconnect and unplug the AC power adapter.
Continued use of the camera when it is emitting smoke, is emitting any unusual odor, or is in any other abnormal state can cause a fire or electric shock.
• Contact your FUJIFILM dealer.

⚠ WARNING

Avoid exposure to water

Do not allow water or foreign objects to enter the camera.
If water or foreign objects get inside the camera, turn the camera off, remove the battery and disconnect and unplug the AC power adapter.
Continued use of the camera can cause a fire or electric shock.
• Contact your FUJIFILM dealer.

Do not use in the bathroom or shower.

Do not use the camera in the bathroom or shower.
This can cause a fire or electric shock.

Do not disassemble

Never attempt to disassemble or modify (never open the case).
Failure to observe this precaution can cause fire or electric shock.

Do not touch internal parts

Should the case break open as the result of a fall or other accident, do not touch the exposed parts.
Failure to observe this precaution could result in electric shock or in injury from touching the damaged parts. Remove the battery immediately, taking care to avoid injury or electric shock, and take the product to the point of purchase for consultation.

Do not change, heat or unduly twist or pull the connection cord and do not place heavy objects on the connection cord.
These actions could damage the cord and cause a fire or electric shock.
• If the cord is damaged, contact your FUJIFILM dealer.

Do not place the camera on an unstable surface.
This can cause the camera to fall or tip over and cause injury.

Never attempt to take pictures while in motion.
Do not use the camera while you are walking or driving a vehicle. This can result in you falling down or being involved in a traffic accident.

Do not touch any metal parts of the camera during a thunderstorm.
This can cause an electric shock due to induced current from the lightning discharge.

Do not use the battery except as specified.
Load the battery as aligned with the indicator.

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⚠ WARNING

Do not heat, change or take apart the battery. Do not drop or subject the battery to impacts. Do not store the battery with metallic products. Do not use chargers other than the specified model to charge the battery.
Any of these actions can cause the battery to burst or leak and cause fire or injury as a result.

Use only the battery or AC power adapters specified for use with this camera. Do not use voltages other than the power supply voltage shown.
The use of other power sources can cause a fire.

If the battery leaks and fluid gets in contact with your eyes, skin or clothing. Flush the affected area with clean water and seek medical attention or call an emergency number right away.

Do not use the charger to charge batteries other than those specified here.
The Ni-MH battery charger is designed for FUJIFILM HR-AA Ni-MH batteries. Using the charger to charge conventional batteries or other types of rechargeable batteries can cause the battery to leak fluid, overheat or burst.

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Do not use in the presence of flammable objects, explosive gases, or dust.

When carrying the battery, install it in a digital camera or keep it in the hard case. When storing the battery, keep it in the hard case. When discarding, cover the battery terminals with insulation tape.
Contact with other metallic objects or battery could cause the battery to ignite or burst.

Keep Memory Cards out of the reach of small children.
Because Memory Cards are small, they can be swallowed by children. Be sure to store Memory Cards out of the reach of small children. If a child swallows a Memory Card, seek medical attention or call an emergency number.

⚠ CAUTION

Do not use this camera in locations affected by oil fumes, steam, humidity or dust.
This can cause a fire or electric shock.

Do not leave this camera in places subject to extremely high temperatures.
Do not leave the camera in locations such as a sealed vehicle or in direct sunlight. This can cause a fire.

⚠ CAUTION

Keep out of the reach of small children.
This product could cause injury in the hands of a child.

Do not place heavy objects on the camera.
This can cause the heavy object to tip over or fall and cause injury.

Do not move the camera while the AC power adapter is still connected. Do not pull on the connection cord to disconnect the AC power adapter.
This can damage the power cord or cables and cause a fire or electric shock.

Do not use the AC power adapter when the plug is damaged or the plug socket connection is loose.
This could cause a fire or electric shock.

Do not cover or wrap the camera or the AC power adapter in a cloth or blanket.
This can cause heat to build up and distort the casing or cause a fire.

When you are cleaning the camera or you do not plan to use the camera for an extended period, remove the battery and disconnect and unplug the AC power adapter.
Failure to do so can cause a fire or electric shock.

When charging ends, unplug the charger from the power socket.
Leaving the charger plugged into the power socket can cause a fire.

Using a flash too close to a person's eyes may temporarily affect the eyesight.
Take particular care when photographing infants and young children.

When a memory card is removed, the card could come out of the slot too quickly. Use your finger to hold it and gently release the card.

Request regular internal testing and cleaning for your camera.
Build-up of dust in your camera can cause a fire or electric shock.
- Contact your FUJIFILM dealer to request internal cleaning every 2 years.
- Please note this is not a free of charge service.

Remove your fingers from the flash window before the flash fires.
Failure to observe this precaution could result in burns.

Keep the flash window clean and do not use the flash if the window is obstructed.
Failure to observe these precautions could cause smoke or discoloration.

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Power Supply and Battery

* Confirm your battery type before reading the following descriptions.

The following explains proper use of batteries and how to prolong their life. Incorrect use of batteries can cause shorter battery life, as well as leakage, excessive heat, fire or explosion.

1 Camera uses the Rechargeable Lithium-ion Battery

* When shipped, the battery is not fully charged. Always charge the battery before using it.
* When carrying the battery, install it in a digital camera or keep it in the soft case.

■ Battery Features

- The battery gradually loses its charge even when not used. Use a battery that has been charged recently (in the last day or two) to take pictures.
- To maximize the life of the battery, turn the camera off as quickly as possible when it is not being used.
- The number of available frames will be lower in cold locations or at low temperatures. Take along a spare fully charged battery. You can also increase the amount of power produced by putting the battery in your pocket or another warm place to heat it and then loading it into the camera just before you take a picture.

If you are using a heating pad, take care not to place the battery directly against the pad. The camera may not operate if you use a depleted battery in cold conditions.

■ Charging the Battery

- You can charge the battery using the battery charger (included).
  - The battery can be charged at ambient temperatures between 0°C and +40°C (+32°F and +104°F). Refer to the *Owner's Manual* for the time of charging battery.
  - You should charge the battery at an ambient temperature between +10°C and +35°C (+50°F and +95°F). If you charge the battery at a temperature outside this range, charging takes longer because the performance of the battery is impaired.
  - You cannot charge the battery at temperatures of 0°C (+32°F) or below.
- The Rechargeable Lithium-ion Battery does not need to be fully discharged or exhausted flat before being charged.
- The battery may feel warm after it has been charged or immediately after being used. This is perfectly normal.
- Do not recharge a fully charged battery.

■ Battery Life

At normal temperatures, the battery can be used at least 300 times. If the time for which the battery provides power shortens markedly, this indicates that the battery has reached the end of its effective life and should be replaced.

■ Notes on storage

- If a battery is stored for long periods while charged, the performance of the battery can be impaired. If the battery will not be used for some time, run the battery out before storing it.
- If you do not intend to use the camera for a long period of time, remove the battery from the camera.
- Store the battery in a cool place.
  - The battery should be stored in a dry location with an ambient temperature between +15°C and +25°C (+59°F and +77°F).
  - Do not leave the battery in hot or extremely cold places.

■ Handling the Battery Cautions for Your Safety:

- Do not carry or store battery with metal objects such as necklaces or hairpins.
- Do not heat the battery or throw it into a fire.
- Do not attempt to take apart or change the battery.
- Do not recharge the battery with chargers other those specified.
- Dispose of used battery promptly.
- Do not drop the battery or otherwise subject it to strong impacts.
- Do not expose the battery to water.
- Always keep the battery terminals clean.
- Do not store batteries in hot places. Also, if you use the battery for a long period, the camera body and the battery itself will become warm. This is normal. Use the AC power adapter if you are taking pictures or viewing images for a long period of time.

2 Camera uses AA-size alkaline or Ni-MH (nickel-metal hydride) rechargeable batteries

* For details on the batteries that you can use, refer to the *Owner's Manual* of your camera.

■ Cautions for Using Battery

- Do not heat the batteries or throw them into a fire.
- Do not carry or store batteries with metal objects such as necklaces or hairpins.
- Do not expose the batteries to water, and keep batteries from getting wet or stored in moist locations.
- Do not attempt to take apart or change the batteries, including battery casings.
- Do not subject the batteries to strong impacts.

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- Do not use batteries that are leaking, deformed, discolored.
- Do not store batteries in warm or humid places.
- Keep the batteries out of reach of babies and small children.
- Make sure that the battery polarity (⊕ and ⊖) is correct.
- Do not use new with used batteries. Do not use charged and discharged batteries together.
- Do not use different types or brands of batteries at the same time.
- If you do not intend to use the camera for a long period of time, remove the batteries from the camera. Note if the camera is left with the batteries removed, the time and date settings are cleared.
- The batteries feel warm right after being used. Before removing the batteries, turn the camera off and wait for the batteries to cool down.
- Since batteries do not work well in cold weather or locations, warm the batteries by placing them inside your garments before use. Batteries do not work well when cold. They will work again when the temperature returns to normal.
- Soil (such as fingerprints) on the battery terminals makes the batteries charge less reducing the number of images. Carefully wipe the battery terminals with a soft dry cloth before loading.

⚠ If any liquid at all leaks from the batteries, wipe the battery compartment thoroughly and then load new batteries.

⚠ If any battery fluid comes into contact with your hands or clothing, flush the area thoroughly with water. Note that battery fluid can cause loss of eyesight if it gets into your eyes. If this occurs, do not rub your eyes. Flush the fluid out with clean water and contact your physician for treatment.

■ Using the AA-size Ni-MH batteries correctly

- Ni-MH batteries left unused in storage for long periods can become "deactivated". Also, repeatedly charging Ni-MH batteries that are only partially discharged can cause them to suffer from the "memory effect". Ni-MH batteries that are "deactivated" or affected by "memory" suffer from the problem of only providing power for a short time after being charged. To prevent this problem, discharge and recharge them several times using the camera's "Discharging rechargeable batteries" function.
  Deactivation and memory are specific to Ni-MH batteries and are not in fact battery faults.
  See *Owner's Manual* for the procedure for "Discharging rechargeable batteries".

⚠ CAUTION

Do not use the "Discharging rechargeable batteries" function when alkaline batteries being used.

- To charge Ni-MH batteries, use the quick battery charger (sold separately). Refer to the instructions supplied with the charger to make sure that the charger is used correctly.
- Do not use the battery charger to charge other batteries.
- Note that the batteries feel warm after being charged.
- Due to the way the camera is constructed, a small amount of current is used even when the camera is turned off. Note in particular that leaving Ni-MH batteries in the camera for a long period will overdischarge the batteries and may render them unusable even after recharging.
- Ni-MH batteries will self-discharge even when not used, and the time for which they can be used may be shortened as a result.
- Ni-MH batteries will deteriorate rapidly if over-discharged (e.g. by discharging the batteries in a flashlight). Use the "Discharging rechargeable batteries" function provided in the camera to discharge the batteries.
- Ni-MH batteries have a limited service life. If a battery can only be used for a short time even after repeated discharge-charge cycles, it may have reached the end of its service life.

■ Disposing of Batteries

- When disposing of batteries, do so in accordance with your local waste disposal regulations.

3 Notes on both models (1, 2)

■ AC Power Adapter

Always use the AC Power Adapter with the camera. The use of an AC Power adapter other than FUJIFILM AC Power Adapter can be damaged to your digital camera.
For details on the AC power adapter, refer to the *Owner's Manual* of your camera.

- Use the AC power adapter for indoor use only.
- Plug the connection cord plug securely into the DC input terminal.
- Turn off the FUJIFILM Digital camera before disconnecting the cord from the DC input terminal. To disconnect, pull out the plug gently. Do not pull on the cord.
- Do not use the AC power adapter with any device other than your camera.
- During use, the AC power adapter will become hot to the touch. This is normal.

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- Do not take apart the AC power adapter. Doing so could be dangerous.
- Do not use the AC power adapter in a hot and humid place.
- Do not subject the AC power adapter to strong shocks.
- The AC power adapter may emit a humming. This is normal.
- If used near a radio, the AC power adapter may cause static. If this happens, move the camera away from the radio.

Before Using the Camera

Do not aim the camera at extremely bright light sources, such as the sun in a cloudless sky. Failure to observe this precaution could damage the camera image sensor.

■ Test Shots Prior to Photography

For important photographs (such as weddings and overseas trips), always take a test shot and view the image to make sure that the camera is working normally.

- FUJIFILM Corporation cannot accept liability for any incidental losses (such as the costs of photography or the loss of income from photography) incurred as a result of faults with this product.

■ Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner, unless intended only for personal use. Note that some restrictions apply to the photographing of stage performances, entertainments and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of Memory Card containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

■ Handling Your Digital Camera

To ensure that images are recorded correctly, do not subject the camera to impact or shock while an image is being recorded.

■ Liquid Crystal

If the LCD monitor is damaged, take particular care with the liquid crystal in the monitor. If any of the following situations arise, take the urgent action indicated.

- If liquid crystal comes in contact with your skin:
  Wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye:
  Flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed:
  Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

Although the LCD panel is produced with highly sophisticated technologies, there may be black spots or permanently lit spots. This is not a malfunction, and does not affect recorded images.

■ Trademark Information

xD-Picture Card and xD-Picture Card are trademarks of FUJIFILM Corporation. The typefaces included herein are solely developed by DynaComware Taiwan Inc. Macintosh, QuickTime, and Mac OS are trademarks of Apple Inc. in the U.S.A. and other countries. Windows 7, Windows Vista, and the Windows logo are trademarks of the Microsoft group of companies. Adobe and Adobe Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the U.S.A. and/or other countries. The SDHC and SDXC logos are trademarks of SD-3C, LLC. The HDMI logo is a trademark. YouTube is a trademark of Google Inc. All other trade names mentioned in this manual are the trademarks or registered trademarks of their respective owners.

■ Notes on Electrical Interference

If the camera is to be used in hospitals or aircrafts, please note that this camera may cause interference to other equipment in the hospital or aircraft. For details, please check with the applicable regulations.

■ Explanation of Color Television System

NTSC: National Television System Committee, color television telecasting specifications adopted mainly in the U.S.A., Canada and Japan.

PAL: Phase Alternation by Line, a color television system adopted mainly by European countries and China.

■ Exif Print (Exif ver. 2.3)

Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

IMPORTANT NOTICE: Read Before Using the Software

Direct or indirect export, in whole or in part, of licensed software without the permission of the applicable governing bodies is prohibited.

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NOTICES

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Please read the "Safety Notes" and make sure you understand them before using the camera.

Perchlorate Material—special handling may apply. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate.

For Customers in the U. S. A.

Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

FCC Statement: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- You are cautioned that any changes or modifications not expressly approved in this manual could void the user's authority to operate the equipment.

Notes on the Grant: To comply with Part 15 of the FCC Rules, this product must be used with a Fujifilm-specified ferrite-core A/V cable, USB cable, and DC supply cord.

For Customers in Canada

CAUTION: This Class B digital apparatus complies with Canadian ICES-003.

Disposal of Electrical and Electronic Equipment in Private Households

In the European Union, Norway, Iceland and Liechtenstein: This symbol on the product, or in the manual and in the warranty, and/or on its packaging indicates that this product shall not be treated as household waste. Instead it should be taken to an applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

This symbol on the batteries or accumulators indicates that those batteries shall not be treated as household waste.

If your equipment contains easy removable batteries or accumulators please dispose these separately according to your local requirements.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

In Countries Outside the European Union, Norway, Iceland and Liechtenstein: If you wish to discard this product, including the batteries or accumulators, please contact your local authorities and ask for the correct way of disposal.

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About This Manual

Before using the camera, read this manual and the warnings on pages ii–ix. For information on specific topics, consult the sources below.

✔ *Table of Contents* ..... 📖 ***xi***

The "Table of Contents" gives an overview of the entire manual. The principal camera operations are listed here.

✔ *Troubleshooting* ..... 📖 ***110***

Having a specific problem with the camera? Find the answer here.

✔ *Warning Messages and Displays* ..... 📖 ***116***

Find out what's behind that flashing icon or error message in the display.

Memory Cards

Pictures can be stored in the camera's internal memory or on optional SD, SDHC, and SDXC memory cards (📖 14), referred to in this manual as "memory cards".

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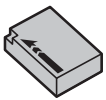
Symbols and Conventions

The following symbols are used in this manual:
: This information should be read before use to ensure correct operation.
: Points to note when using the camera.
: Additional information that may be helpful when using the camera.
: Other pages in this manual on which related information may be found.

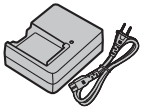
Menus and other text in the camera monitor are shown in **bold**. In the illustrations in this manual, the monitor display may be simplified for explanatory purposes.

Supplied Accessories

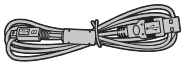
The following items are included with the camera:



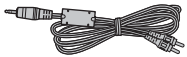
NP-W126 rechargeable battery



BC-W126 battery charger



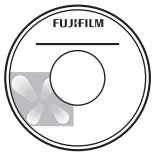
USB cable



A/V cable

Lens cap

Lens hood



CD-ROM

- *Shoulder strap*
- *Owner's Manual* (this manual)
- *Basic Manual*

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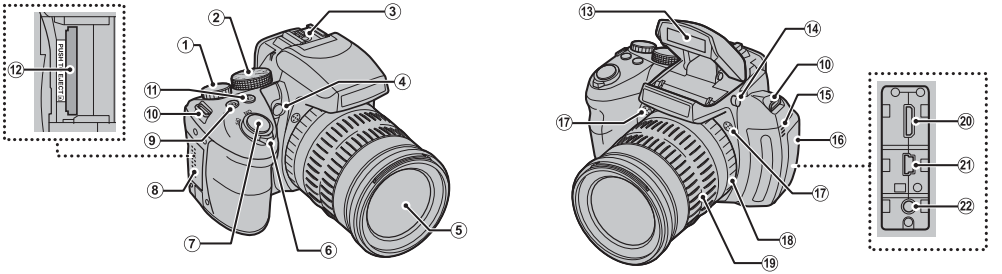
Parts of the Camera

For more information, refer to the page listed to the right of each item.



1	Command dial 32, 33, 34	8	Memory card slot cover 12	16	Terminal cover 70, 72, 82
2	Mode dial 22	9	(continuous shooting) button 42	17	Microphone (L/R) 67
3	Hot shoe 89	10	Strap eyelet 8	18	Focus ring 48
4	AF-assist illuminator ..... 103 Self-timer lamp 41	11	(exposure compensation) button 46	19	Zoom ring 18
5	Lens 121	12	Memory card slot 12	20	Connector for HDMI cable 70
6	**ON/OFF** switch 15	13	Flash 39	21	USB cable connector 72, 82
7	Shutter button 19	14	(flash pop-up) button 39	22	A/V cable connector 70
		15	Speaker 69, 96		

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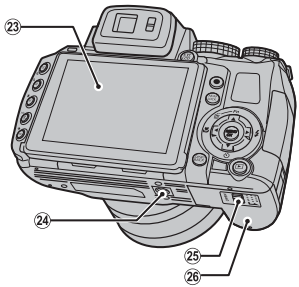
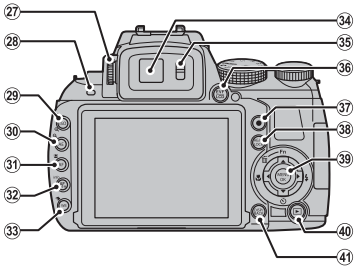


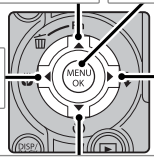


23 Monitor 5
24 Tripod mount
25 Battery-chamber latch 10
26 Battery-chamber cover 10
27 Diopter adjustment control 4
28 Indicator lamp 20
29 **ISO** (sensitivity) button 51
(playback zoom in) button 59
30 **AE** (autoexposure) button 47
(playback zoom out) button 59
31 **AF** (autofocus) button 50
(Intelligent Face Detection) button 54, 88
32 **AF C-S-M** (focus mode) button 48
info button 62
33 **WB** (white balance) button 52
(image search) button 63
34 Electronic viewfinder 4
35 Eye sensor 4
36 **EVF/LCD** (display selection) button 4
37 ● (movie record) button 67
38 **AE/AF LOCK** (autofocus lock/autoexposure) button 37, 49
39 Selector button (see below)
40 (playback) button 15, 21
41 **DISP** (display)/**BACK** button 7, 20

The Selector Button

Move cursor up (▲)
Fn (Function) button (📖 53)/
(delete) button (📖 21)

MENU/OK button (📖 16, 84, 91, 98)



Move cursor left (◀)
(macro) button (📖 38)

Move cursor right (▶)
(flash) button (📖 39)

Move cursor down (▼)
(self-timer) button (📖 41)

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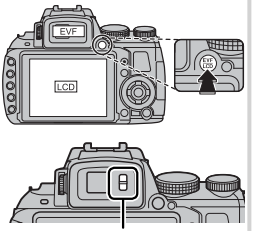
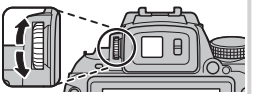
The Electronic Viewfinder (EVF)

The electronic viewfinder provides the same information as the monitor, and can be used when bright lighting conditions make the display in the monitor difficult to see. Press **EVF/LCD** button to select from the auto switch, monitor, or electric view finder mode. When the auto switch mode is set, the electric view finder turns on automatically when you put your eye to the view finder, and the monitor turns on when you take your eye away (note that the eye sensor may not respond if you are wearing glasses or your head is an angle to the camera).



Eye sensor

The camera is equipped with diopter adjustment to accommodate individual differences in vision. Slide the diopter adjustment control up and down until the viewfinder display is in sharp focus.



Bright Ambient Lighting

Reflections and glare caused by bright ambient lighting may make it hard to see the display in the monitor, particularly when the camera is used outdoors. This can be addressed by holding the **EVF/LCD** button to trigger outdoor mode. Outdoor mode can also be enabled using the **MONITOR SUNLIGHT MODE** option in the setup menu (📖 102).

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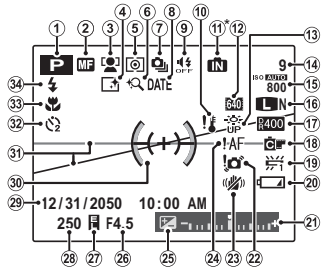
Camera Displays

The following indicators may appear during shooting and playback. The indicators displayed vary with camera settings.

■ *Shooting*



* IN: indicates that no memory card is inserted and that pictures will be stored in the camera's internal memory (📖 12).

1	Shooting mode	22
2	Manual focus indicator	48
3	Intelligent Face Detection indicator	54
4	Intelligent sharpness	87
5	Metering	47
6	Intelligent digital zoom	87
7	Continuous shooting mode	42
8	Date stamp	106
9	Silent mode indicator	20, 99
10	Temperature warning	120
11	Internal memory indicator*	
12	Movie mode	68
13	Monitor sunlight mode	102
14	Number of available frames	120
15	Sensitivity	51, 84
16	Image size/quality	85
17	Dynamic range	86
18	Film simulation	86
19	White balance	52
20	Battery level	15
21	Exposure indicator	46
22	Blur warning	40, 116
23	Dual IS mode	103
24	Focus warning	19, 116
25	Exposure compensation	46
26	Aperture	33, 34
27	AE lock indicator	37
28	Shutter speed	33, 34
29	Date and time	16
30	Focus frame	36
31	Electronic level	90
32	Self-timer indicator	41
33	Macro (close-up) mode	38
34	Flash mode	39

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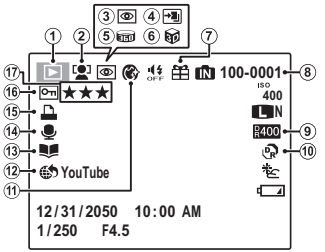
■ *Playback*



1	Playback mode indicator 21, 58	9	Dynamic range 86
2	Intelligent Face Detection indicator 54, 88	10	EXR mode 23
3	Red-eye removal indicator 93	11	Portrait enhancer 28
4	Pro focus mode, pro low-light mode 25	12	Mark for upload to 92
5	Motion panorama 30, 66	13	Photobook assist 64
6	3D image 26	14	Voice memo indicator 96
7	Gift image 58	15	DPOF print indicator 73
8	Frame number 101	16	Protected image 94
		17	Favorites 58

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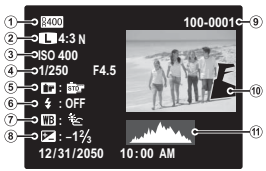
Hiding and Viewing Indicators

Press **DISP/BACK** to cycle through shooting and playback indicators as follows:

- **Shooting**: Indicators displayed/indicators hidden/best framing/HD framing/histogram
- **Playback**: Indicators displayed/indicators hidden/★ favorites (📖 58)/photo info

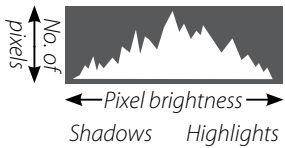
Histograms



① *Dynamic range*
② *Image size and quality*
③ *Sensitivity*
④ *Shutter speed/aperture*
⑤ *Film simulation*
⑥ *Flash mode*
⑦ *White balance*
⑧ *Exposure compensation*
⑨ *Frame number*
⑩ *Picture (overexposed areas blink on and off)*
⑪ *Histogram*

Overexposed areas blink on and off.

Histograms show the distribution of tones in the image. Brightness is shown by the horizontal axis, the number of pixels by the vertical axis.



Optimal exposure: Pixels are distributed in an even curve throughout the tone range.

Overexposed: Pixels are clustered at the right side of the graph.

Underexposed: Pixels are clustered at the left side of the graph.

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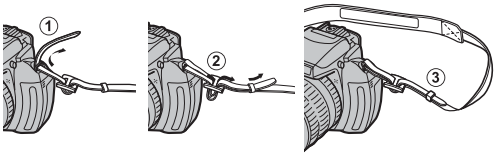
The Strap

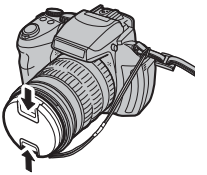
Attach the strap to the two strap eyelets as shown below.



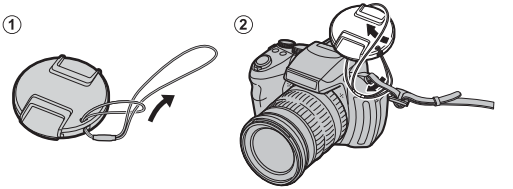
To avoid dropping the camera, be sure the strap is correctly secured.

The Lens Cap

Attach the lens cap as shown.

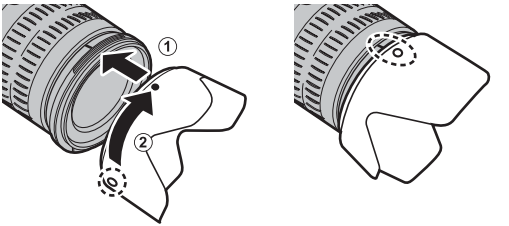


To avoid losing the lens cap, pass the supplied string through the eyelet (①) and secure the lens cap to the strap (②).



The Lens Hood

Rotate the lens hood in the direction shown until it clicks into place.



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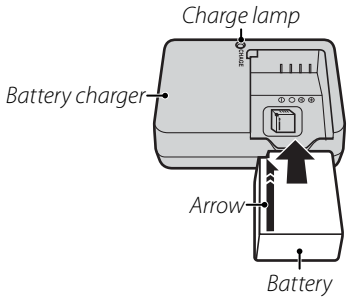
Charging the Battery

The battery is not charged at shipment. Charge the battery before use.

1 **Place the battery in the charger.**
Place the battery in the supplied battery charger as shown.



The camera uses an NP-W126 rechargeable battery.

2 **Plug the charger in.**
Plug the charger into an indoor power outlet. The charging indicator will light.

The Charging Indicator
The charging indicator shows battery charge status as follows:

Charging indicator	Battery status	Action
Off	Battery not inserted.	Insert the battery.
	Battery fully charged.	Remove the battery.
On	Battery charging.	—
Blinks	Battery fault.	Unplug the charger and remove the battery.

3 **Charge the battery.**
Remove the battery when charging is complete. See the specifications (📖 125) for charging times (note that charging times increase at low temperatures).

Unplug the charger when it is not in use.

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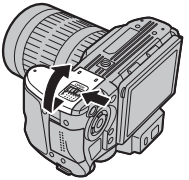
Inserting the Battery

Insert the batteries in the camera as described below.

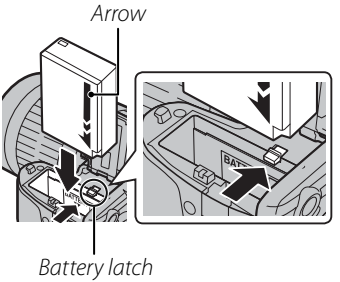
1 **Open the battery-chamber cover.**
Slide the battery-chamber latch in the direction shown and open the battery-chamber cover.



Be sure the camera is off before opening the battery-chamber cover.

- Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could result in damage to image files or memory cards.
- Do not use excessive force when handling the battery-chamber cover.

2 **Insert the battery.**
Insert the battery as shown in the illustration inside the battery chamber, using the battery to keep the latch pressed to one side.



Insert the battery in the correct orientation. ***Do NOT use force or attempt to insert the battery upside down or backwards.*** The battery will slide in easily in the correct orientation.

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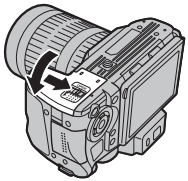
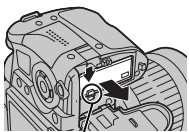
3 Close the battery-chamber cover.
Press the cover down until it clicks into place.



Removing the Battery

Before removing the battery, ***turn the camera off*** and open the battery-chamber cover. To remove the battery, press the battery latch to the side, and slide the battery out of the camera as shown.



Battery latch

Batteries

- Remove dirt from the battery terminals with a clean, dry cloth. Failure to observe this precaution could prevent the battery from charging.
- Do not affix stickers or other objects to the battery. Failure to observe this precaution could make it impossible to remove the battery from the camera.
- Do not short the battery terminals. The battery could overheat.
- Read the cautions in "Power Supply and Battery" (📖 vi).
- Use only battery chargers designated for use with the battery. Failure to observe this precaution could result in product malfunction.
- Do not remove the labels from the battery or attempt to split or peel the outer casing.
- The battery gradually loses its charge when not in use. Charge the battery one or two days before use.

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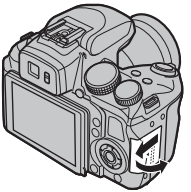
Inserting a Memory Card

Although the camera can store pictures in internal memory, optional SD, SDHC and SDXC ***memory cards*** (sold separately) can be used to store additional pictures.

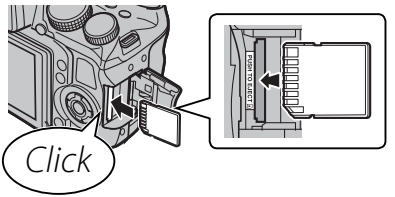
1 Open the memory card slot cover.

Be sure the camera is off before opening the memory card slot cover.

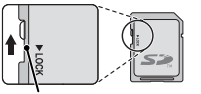


2 Insert the memory card.

Holding the memory card in the orientation shown below, slide it in until it clicks into place at the back of the slot.



- Be sure card is in the correct orientation; do not insert at an angle or use force. If the memory card is not correctly inserted or no memory card is inserted, IN will appear in the LCD monitor and internal memory will be used for recording and playback.
- SD/SDHC/SDXC memory cards can be locked, making it impossible to format the card or to record or delete images. Before inserting an SD/SDHC/SDXC memory card, slide the write-protect switch to the unlocked position.



Write-protect switch

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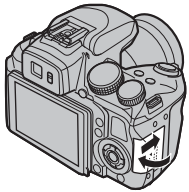
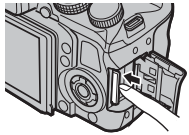
3 Close the memory card slot cover.



Removing Memory Cards

After confirming that the camera is off, press the card in and then release it slowly. The card can now be removed by hand.



- The memory card may spring out if you remove your finger immediately after pushing the card in.
- Memory cards may be warm to the touch after being removed from the camera. This is normal and does not indicate a malfunction.

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■ *Compatible Memory Cards*

FUJIFILM and SanDisk SD, SDHC, and SDXC memory cards have been approved for use in the camera. A complete list of approved memory cards is available at *http://www.fujifilm.com/support/digital_cameras/compatibility/*. Operation is not guaranteed with other cards. The camera can not be used with ***xD-Picture Cards*** or **M**ulti**M**edia**C**ard (MMC) devices.

Memory Cards

- ***Do not turn the camera off or remove the memory card while the memory card is being formatted or data are being recorded to or deleted from the card.*** Failure to observe this precaution could damage the card.
- Format SD/SDHC/SDXC memory cards before first use, and be sure to reformat all memory cards after using them in a computer or other device. For more information on formatting memory cards, see "**FORMAT**" (📖 100).
- Memory cards are small and can be swallowed; keep out of reach of children. If a child swallows a memory card, seek medical assistance immediately.
- miniSD or microSD adapters that are larger or smaller than the standard dimensions of an SD/SDHC/SDXC card may not eject normally; if the card does not eject, take the camera to an authorized service representative. Do not forcibly remove the card.
- Do not affix labels to memory cards. Peeling labels can cause camera malfunction.
- Movie recording may be interrupted with some types of SD/SDHC/SDXC memory card. Use a CLASS 4 card or better when shooting HD or high-speed movies.
- The data in internal memory may be erased or corrupted when the camera is repaired. Please note that the repairer will be able to view pictures in internal memory.
- Formatting a memory card or internal memory in the camera creates a folder in which pictures are stored. Do not rename or delete this folder or use a computer or other device to edit, delete, or rename image files. Always use the camera to delete pictures from memory cards and internal memory; before editing or renaming files, copy them to a computer and edit or rename the copies, not the originals.

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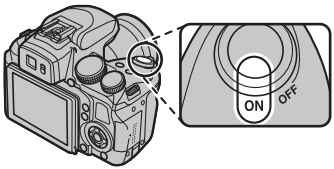
Turning the Camera on and Off

Rotate the **ON/OFF** switch to **ON** to turn the camera on.



Select **OFF** to turn the camera off.

Switching to Playback Mode

Press the ▶ button to start playback. Press ▶ button again or press the shutter button halfway to return to shooting mode.

Auto Power Off

The camera will turn off automatically if no operations are performed for the length of time selected in the **AUTO POWER OFF** menu (📖 102). To reactivate the camera after it has turned off automatically, turn the **ON/OFF** switch to **OFF** and then back to **ON**.

Battery Level

Battery level is shown as follows:

Indicator	Description
(white)	Battery partially discharged.
(white)	Battery more than half discharged.
(red)	Low battery. Charge as soon as possible.
(blinks red)	Battery exhausted. Turn camera off and charge battery.

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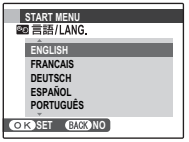
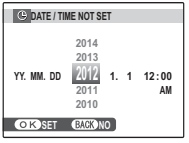
Basic Setup

A language-selection dialog is displayed the first time the camera is turned on. Set up the camera as described below (for information on resetting the clock or changing languages, see page 99).

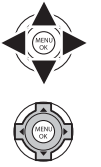


1 Highlight a language and press **MENU/OK**.

Press **DISP/BACK** to skip the current step. Any steps you skip will be displayed the next time the camera is turned on.



2 The date and time will be displayed. Press the selector left or right to highlight the year, month, day, hour, or minute and press up or down to change. To change the order in which the year, month, and day are displayed, highlight the date format and press the selector up or down. Press **MENU/OK** when settings are complete.



The Camera Clock

If the battery is removed for an extended period, the camera clock will be reset and the language-selection dialog will be displayed when the camera is turned on.

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Taking Pictures in (EXR AUTO) Mode

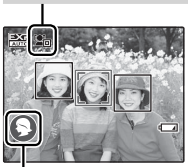
This section describes how to take pictures in (EXR AUTO) mode.

1 Select a mode.

When you rotate the mode dial to EXR, the EXR AUTO display will appear in the LCD monitor.

The Icon

In EXR AUTO mode, the camera continuously adjusts focus and searches for faces, increasing the drain on the battery. is displayed in the LCD monitor.



Scene Icon (23)

The camera automatically selects the appropriate scene.

- The camera analyses the scene and selects the preferred EXR mode when the shutter button is pressed halfway (24).
- To raise the flash when lighting is poor, press the flash pop-up button (39).

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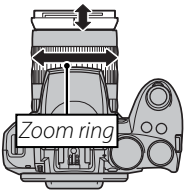
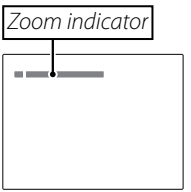
2 Frame the picture.

Use the zoom ring to frame the picture in the display. The zoom indicator appears.



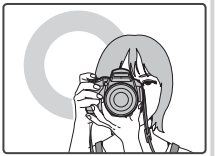


Focus Lock

Use focus lock (📖 36) to focus on subjects that are not in the focus frame.

Holding the Camera

Hold the camera steady with both hands and brace your elbows against your sides. Shaking or unsteady hands can blur your shots.



To prevent pictures that are out of focus or too dark (underexposed), keep your fingers and other objects away from the lens and flash.

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3 Focus.

Press the shutter button halfway to focus.

If the camera is able to focus, it will beep twice and the indicator lamp will glow green.

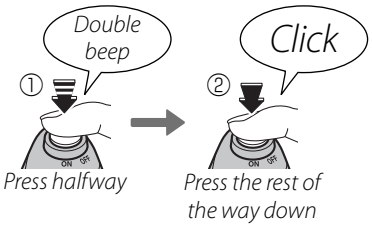
If the camera is unable to focus, the focus frame will turn red, **!AF** will be displayed, and the indicator lamp will blink green. Change the composition or use focus lock (📖 36).

4 Shoot.

Smoothly press the shutter button the rest of the way down to take the picture.

The Shutter Button

The shutter button has two positions. Pressing the shutter button halfway (①) sets focus and exposure; to shoot, press the shutter button the rest of the way down (②).



If the subject is poorly lit, the AF-assist illuminator may light to assist focus (📖 103). For information on using the flash when lighting is poor, see page 39.

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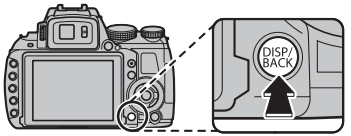
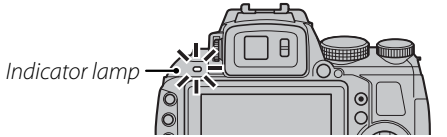
Silent Mode

In situations in which camera sounds or lights may be unwelcome, hold the **DISP/BACK** button down until OFF is displayed.



The camera speaker, flash, and AF-assist illuminator/self-timer lamp turn off and flash and volume settings can not be adjusted (note that the flash will still fire when is selected in scene mode). To restore normal operation, press the **DISP/BACK** button until the OFF icon is no longer displayed.

The Indicator Lamp



The indicator lamp shows camera status as follows:

Indicator lamp	Camera status
Glows green	Focus locked.
Blinks green	Blur, focus, or exposure warning. Picture can be taken.
Blinks green and orange	Recording pictures. Additional pictures can be taken.
Glows orange	Recording pictures. No additional pictures can be taken at this time.
Blinks orange	Flash charging; flash will not fire when picture is taken.
Blinks red	Lens or memory error (memory card full or not formatted, format error, or other memory error).

Warnings

Detailed warnings appear in the display. See pages 116–119 for more information.

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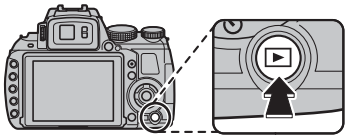
Viewing Pictures

Pictures can be viewed in the monitor. When taking important photographs, take a test shot and check the results.

1 Press the ▶ button.



The most recent picture will be displayed in the monitor.

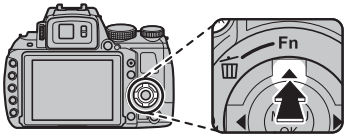
2 View additional pictures.

Press the selector right to view pictures in the order recorded, left to view pictures in reverse order.

Press the shutter button to exit to shooting mode.

Deleting Pictures

To delete pictures, press the 🗑 button. A menu of deletion options will be displayed (📖 61).



The Playback Menu

Pictures can also be deleted from the playback menu (📖 91).

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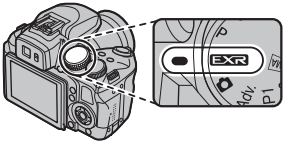
Shooting Mode

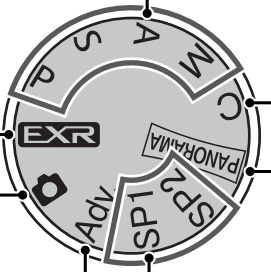
Choose a shooting mode according to the scene or type of subject. To choose a shooting mode, rotate the mode dial to the desired setting. The following modes are available:



P, S, A, M: Select for full control over camera settings, including aperture (**M** and **A**) and/or shutter speed (**M** and **S**) (📖 32).

EXR: Improve clarity, reduce noise, increase dynamic range, or let the camera automatically adjust settings to suit the scene (📖 23).

C (CUSTOM): Recall stored settings for modes **P**, **S**, **A**, **M** and all EXR modes except EXR AUTO (📖 35).



(AUTO): A simple "point-and-shoot" mode recommended for first-time users of digital cameras (📖 24).

PANORAMA **(MOTION PANORAMA 360)**: Select for taking a panorama (📖 30).

Adv. (ADVANCED): Sophisticated techniques made easy (📖 24).

SP1, SP2 (SCENE POSITION): Choose a scene suited to the subject or shooting conditions and let the camera do the rest (📖 28).

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EXR (EXR AUTO/EXR Priority)

Optimize settings for your current subject or improve clarity, reduce noise, or enhance dynamic range. Rotate the mode dial to EXR and choose one of the following EXR modes in the shooting menu.

■ EXR AUTO (EXR AUTO)

The camera automatically selects the scene and EXR mode according to shooting conditions.

If AUTO is selected for **IMAGE SIZE** in EXR AUTO mode, the camera will automatically select the optimal image size.

The Scene Icon

The camera selects from the following scenes:

Main subject \ Scene		AUTO	LAND-SCAPE	NIGHT	NIGHT (TRIPOD)	MACRO	BEACH	SUNSET	SNOW	SKY	GREEN-ERY	SKY & GREENERY
Non-portrait		●	●	●*	●*	●	●	●	●	●	●	●
Portrait	Normal	●	●	●*	●*	—	●	●	●	●	●	●
	Backlit	●	●	—	—	—	●	●	●	●	●	●
Moving object		●	●	●	●	●	●	●	●	●	●	●
Portrait and motion	Normal	●	●	●	●	—	●	●	●	●	●	●
	Backlit	●	●	—	—	—	●	●	●	●	●	●

* If ● is displayed, the camera will take a series of shots (advanced anti-blur; 24).

The mode selected may vary with shooting conditions. If the mode and subject do not match, select ● mode (24) or choose **SP** (28) and select a scene manually.

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Advanced Anti Blur

When is displayed, the camera will take a series of exposures and combine them to form a single image, reducing "noise" (mottling) and blur.

is available when **ON** is selected in the shooting menu (📖 88) and the flash (📖 39) is off or set to auto.

- Some time may be required to combine the exposures into a single image. A single combined image may not be created if the subject or camera moves during shooting. Keep the camera steady during shooting and do not move the camera until shooting is complete.
- Frame coverage is reduced.

The EXR Icon

When the shutter button is pressed halfway, the camera chooses the preferred EXR mode:

- (**RESOLUTION PRIORITY**): Produces crisp, clear shots.
- (**HIGH ISO & LOW NOISE**): Reduces noise in pictures taken at high sensitivities.
- (**D-RANGE PRIORITY**): Increases the amount of detail visible in highlights.

■ EXR *Priority*

Select this mode to manually choose from the following EXR modes:

- (**RESOLUTION PRIORITY**): Choose for crisp, clear shots.
- (**HIGH ISO & LOW NOISE**): Reduce noise in pictures taken at high sensitivities.
- (**D-RANGE PRIORITY**): Increase the amount of detail visible in highlights.
  D-Rng **DYNAMIC RANGE** (📖 86) can be set to R1600 (1600%) and R800 (800%).

AUTO

Choose for crisp, clear snapshots. This mode is recommended in most situations.

Adv. *ADVANCED*

This mode combines "point-and-shoot" simplicity with sophisticated photographic techniques. The **Adv. MODE** option in the shooting menu can be used to choose from the following advanced modes:

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■ PRO FOCUS

The camera takes up to three shots each time the shutter button is pressed, softening the background to emphasize the main subject. The amount of softening can be adjusted before shooting by rotating the command dial. Use for portraits or photos of flowers similar to those produced by SLR cameras.

Softening can not be applied to background objects that are too close to the main subject. If a message stating that the camera can not create the effect is displayed when the camera focuses, try backing away from your subject and zooming in. The camera may also be unable to soften the background if the subject is moving; if prompted, check the results and try again.

■ PRO LOW-LIGHT

Each time the shutter button is pressed, the camera makes four exposures and combines them into a single photograph. Use to reduce noise and blur when photographing poorly lit subjects or static subjects at high zoom ratios.

A single combined photograph may not be created with some scenes or if the subject or camera moves during shooting. Do not move the camera until shooting is complete.

Pro Focus/Pro Low-Light

To save unprocessed copies of pictures taken in these modes, select **ON** for the **SAVE ORG IMAGE** option in the setup menu (📖 105).

- Keep the camera steady during shooting.
- Frame coverage is reduced.

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■ MULTIPLE EXPOSURE

Create a photograph that combines two exposures.

1 Take the first shot.

2 Press **MENU/OK**. The first shot will be shown superimposed on the view through the lens as a guide to taking the second shot.

> To return to Step 1 and retake the first shot, press the selector left. To save the first shot and exit without creating a multiple exposure, press **DISP/BACK**.

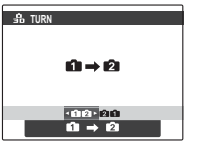
3 Take the second shot.

4 Press **MENU/OK** to create the multiple exposure, or press the selector left to return to Step 3 and retake the second shot.

■ INDIVID. SHUTTER 3D

Take two shots from different angles to create a 3D image.

1 To choose the order in which the pictures are taken, press the selector right to display the current order and then press the selector left or right to choose from the options below.



1 → 2: Take the left shot first.
2 ← 1: Take the right shot first.

2 Press the shutter button to take the first shot.

> To exit without recording a picture, press **DISP/BACK**.

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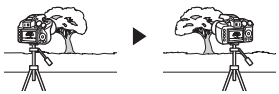
3 The first shot will be shown superimposed on the view through the lens. Using it as a guide, frame the second shot and press the shutter release button.



- The 3D effect may not be visible with some subjects or under some shooting conditions. For best results, the distance the camera is moved between shots should be about 1/30th to 1/50th of the distance to the subject.
- The camera will turn off automatically if no operations performed for the time selected for **AUTO POWER OFF** (📖 102). The first shot will not be saved if the second shot is not taken before the camera turns off.

Viewing and Printing 3D Images

- **The camera** displays images in 2D. Press the selector down to toggle between the first and second shots.
- **Devices equipped for 3D display**, such as the FINEPIX REAL 3D V3 digital photo frame or FINEPIX REAL 3D W3 digital camera, will display the images in 3D.
- **3D prints** can be ordered from *http://www.fujifilm.com/3d/print/*
- **The supplied software** displays 3D anaglyph images. 3D photos can also be viewed using other applications that support the MP format.
- **3D TVs** that support the MP format can display images in 3D. See the manual for your TV for details.

- Images are not output in 3D when printed directly from the camera.
- 3D images are displayed in 2D in slide shows and when output on a conventional TV.
- 3D images can not be edited or retouched.

Note: The MP (**M**ulti-**P**icture) format is a CIPA standard for files containing multiple still images. Files in MP format are referred to as "MP files" and have the extension "*.MPO". The camera uses this format for 3D images.

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SP1/SP2: *SCENE POSITION*

The camera offers a choice of "scenes," each adapted to particular shooting conditions or a specific type of subject. Use the **SCENE POSITION** option in the shooting menu to choose the scene assigned to the **SP1**/**SP2** position on the mode dial.

Scene	Description
NATURAL & ϟ	The camera takes two shots: one without the flash and one with.
NATURAL LIGHT	Capture natural lighting under low-light conditions.
PORTRAIT	Choose for portraits.
PORTRAIT ENHANCER	Choose for a smooth skin effect when shooting portraits.
DOG	Choose when photographing dogs.
CAT	Choose when photographing cats.
LANDSCAPE	Choose for daylight shots of buildings and landscapes.
SPORT	Choose when photographing moving subjects.
NIGHT	Choose this mode for poorly lit twilight or night scenes.
NIGHT (TRIPOD)	Choose this mode for slow shutter speeds when shooting at night.
FIREWORKS	Slow shutter speeds are used to capture the expanding burst of light from a firework.
SUNSET	Choose this mode to record the vivid colors in sunrises and sunsets.
SNOW	Choose for crisp, clear shots that capture the brightness of scenes dominated by shining white snow.
BEACH	Choose for crisp, clear shots that capture the brightness of sunlit beaches.
PARTY	Capture indoor background lighting under low-light conditions.
FLOWER	Choose for vivid close-ups of flowers.
TEXT	Take clear pictures of text or drawings in print.

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DOG/CAT

The camera focuses on the faces of dogs or cats that are facing the camera, and the self-timer menu offers a **AUTO RELEASE** option that releases the shutter automatically when a pet is detected (41). During playback, image search (63) can be used to search for pictures taken in either mode.

Although camera can detect many different breeds of dogs and cats, results may vary with the breed and shooting conditions. The camera may fail to detect pets with dark-colored faces or long hair covering their entire face. If a dog or cat is not detected, the camera focuses on the subject at the center of the frame.

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MOTION PANORAMA 360

Follow an on-screen guide to take photos that will automatically be joined to form a panorama.

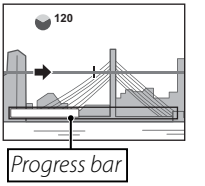
1 Rotate the zoom ring until the zoom indicator turns white (📖 18).

2 To select the angle through which you will pan the camera while shooting, press the selector down. Press the selector left or right to highlight an angle and press **MENU/OK**.

3 Press the selector right to view a choice of pan directions. Press the selector left or right to highlight a pan direction and press **MENU/OK**.

4 Press the shutter button all the way down to start recording. There is no need to keep the shutter button pressed during recording.

5 Pan the camera in the direction shown by the arrow. Shooting ends automatically when the progress bar is full and the panorama is complete.



☛ Shooting ends if the shutter button is pressed all the way down during shooting. No panorama will be recorded if the shutter button is pressed before the camera has been panned through 120°.

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- Panoramas are created from multiple frames. The camera may in some cases record a greater or lesser angle than selected or be unable to stitch the frames together perfectly. The last part of the panorama may not be recorded if shooting ends before the panorama is complete.
- Shooting may be interrupted if the camera is panned too quickly or too slowly. Panning the camera in a direction other than that shown cancels shooting.
- The desired results may not be achieved with moving subjects, subjects close to the camera, unvarying subjects such as the sky or a field of grass, subjects that are in constant motion, such as waves and waterfalls, or subjects that undergo marked changes in brightness. Panoramas may be blurred if the subject is poorly lit.

Choose 360 for seamless 360 ° panoramas that can be played back in a loop (📖 66).

The **SAVE ORG IMAGE** option in the setup menu can be used to record a 360 panorama in addition to a seamless 360 panorama (📖 105).

Depending on the subject and shooting conditions, the camera may produce distorted results or a 360 panorama. The top and bottom of the area visible in the shooting display are cropped out and white strips may appear at the top and bottom of the display.

For Best Results

For best results, move the camera in a small circle at a steady speed, keeping the camera horizontal and being careful only to pan in the direction shown by the guides. If the desired results are not achieved, try panning at a different speed.

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P: PROGRAM AE

In this mode, the camera sets exposure automatically. If desired, you can choose different combinations of shutter speed and aperture that will produce the same exposure (program shift).

If the subject is outside the metering range of the camera, the shutter speed and aperture displays will show "---". Press the shutter button halfway to measure exposure again.

Program Shift

Rotate the command dial to choose the desired combination of shutter speed and aperture. The default values can be restored by raising the flash or turning the camera off. Program shift is only available if the flash is off and an option other than **AUTO** is selected for D-Rng **DYNAMIC RANGE** and ISO **ISO**.

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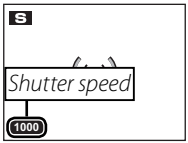
S: SHUTTER PRIORITY AE

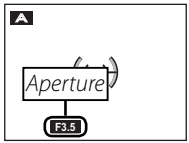
Choose the shutter speed using the command dial, while the camera adjusts aperture for optimal exposure.



- If the correct exposure can not be achieved at the selected shutter speed, aperture will be displayed in red. Adjust shutter speed until the correct exposure is achieved. If the subject is outside the metering range of the camera, the aperture display will show "F---". Press the shutter button halfway to measure exposure again.
- The shutter speed is restricted depending on the ISO setting.

A: APERTURE PRIORITY AE

Choose the aperture using the command dial, while the camera adjusts shutter speed for optimal exposure.



If the correct exposure can not be achieved at the selected aperture, shutter speed will be displayed in red. Adjust aperture until the correct exposure is achieved. If the subject is outside the metering range of the camera, the shutter speed display will show "---". Press the shutter button halfway to measure exposure again.

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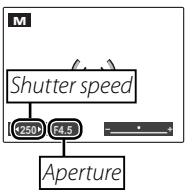
M: MANUAL

In this mode, you choose both shutter speed and aperture. If desired, exposure can be altered from the value suggested by the camera.

Press the ⊡ button to choose between shutter speed and aperture and rotate the command dial to adjust the selected setting.



- Noise in the form of randomly-spaced bright pixels may occur in long exposures.
- The shutter speed is restricted depending on the ISO setting.

The Exposure Indicator

The amount the picture will be under- or over-exposed at current settings is shown by the exposure indicator.

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C: CUSTOM MODE

In **P**, **S**, **A**, **M** and all EXR modes except EXR AUTO, the **CUSTOM SET** option in the shooting menu (📖 90) can be used to save current camera and menu settings. These settings are recalled whenever the mode dial is rotated to **C** (custom mode).

Menu/setting	Settings saved
Shooting menu	**ISO**, **IMAGE SIZE**, **IMAGE QUALITY**, **DYNAMIC RANGE**, **FILM SIMULATION**, **WB SHIFT**, **COLOR**, **TONE**, **SHARPNESS**, **NOISE REDUCTION**, **INTELLIGENT SHARPNESS**, **INTELLIGENT DIGITAL ZOOM**, **FACE DETECTION**, **FACE RECOGNITION**, **MOVIE MODE**, **STILL SHOOTING IN MOVIE**, **AE BKT EV STEPS**, **FLASH**, **EXTERNAL FLASH**, **ELECTRONIC LEVEL**
Setup menu	**AF ILLUMINATOR**, **RAW**
Other	ISO, metering, autofocus mode, focus mode, white balance, burst mode, macro mode, flash mode, exposure compensation, monitor display options (**DISP/BACK** button)

Once the camera is turned off, **INTELLIGENT DIGITAL ZOOM** is deactivated.

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Focus Lock

To compose photographs with off-center subjects:

1 Position the subject in the focus frame.

2 Focus.
Press the shutter button halfway to set focus and exposure. Focus and exposure will remain locked while the shutter button is pressed halfway (AF/AE lock).

3 Recompose the picture.
Keeping the shutter button pressed halfway, recompose the picture.

4 Shoot.

Autofocus

Although the camera boasts a high-precision autofocus system, it may be unable to focus on the subjects listed below. If the camera is unable to focus using autofocus, use focus lock to focus on another subject at the same distance and then recompose the photograph.

- Very shiny subjects such as mirrors or car bodies.
- Fast-moving subjects.
- Subjects photographed through a window or other reflective object.
- Dark subjects and subjects that absorb rather than reflect light, such as hair or fur.
- Insubstantial subjects, such as smoke or flame.
- Subjects that show little contrast with the background (for example, subjects in clothing that is the same color as the background).
- Subjects positioned in front of or behind a high-contrast object that is also in the focus frame (for example, a subject photographed against a backdrop of highly contrasting elements).

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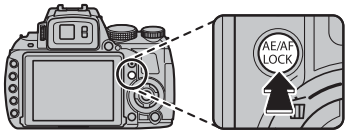
The AE/AF LOCK Button

The **AE/AF LOCK** button can be used to lock exposure or focus.

Locking Exposure

1 Meter exposure.
Position the subject in the focus frame and press the **AE/AF LOCK** button to meter exposure.



2 Focus.
Keeping the **AE/AF LOCK** button pressed, press the shutter button halfway to focus. Focus and exposure will remain locked while the shutter button is pressed halfway, even if you later release the **AE/AF LOCK** button.

Repeat steps 1 and 2 as desired to refocus before taking the picture.

3 Recompose the picture.
Keeping the shutter button pressed halfway, recompose the picture.

Adjusting zoom ends AE lock. AE lock is not available with Intelligent Face Detection.

4 Shoot.

Locking Focus

If **AF LOCK ONLY** is selected for **AE/AF-LOCK BUTTON** in the setup menu (📖 104), pressing the **AE/AF LOCK** button locks focus. If **AE/AF LOCK** is selected, both focus and exposure will be locked.

If **AE&AF ON/OFF SWITCH** is selected for **AE-L AE/AF-LOCK MODE** in the setup menu (📖 104), exposure and/or focus will lock when the **AE/AF LOCK** button is pressed and remain locked until the button is pressed again.

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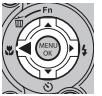
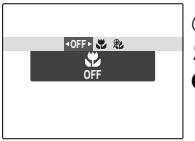
Macro and Super Macro Modes (Close-ups)

For close-ups, press the selector left (🌷) to choose from the macro options shown below.





Choose from 🌷 (macro mode), 🌷 (super macro mode), or **OFF** *(macro mode off)*

When macro mode is in effect, the camera focuses on subjects near the center of the frame. Use the zoom ring to compose pictures. The following restrictions apply in super macro mode: the lens must be zoomed all the way out (at other zoom positions, ⬇ is displayed) and the flash can not be used.

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- Use of a tripod is recommended to prevent blur caused by camera shake.
- Flash compensation may be required when using the flash (📖 89).
- Using the flash at close range may cast a lens shadow. Zoom a little or have more distance from the subject.

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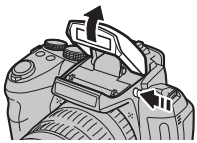
ϟ Using the Flash (Super-Intelligent Flash)

When the flash is used, the camera's ***Super-Intelligent Flash*** system instantly analyzes the scene based on such factors as the brightness of the subject, its position in the frame, and its distance from the camera. Flash output and sensitivity are adjusted to ensure that the main subject is correctly exposed while preserving the effects of ambient background lighting, even in dimly-lit indoor scenes. Use the flash when lighting is poor, for example when shooting at night or indoors under low light.

1 Raise the flash.
Press the flash pop-up button to raise the flash.



2 Choose a flash mode.
Press the selector right (ϟ). The flash mode changes each time the selector is pressed.

Mode	Description
AUTO/ᴬᵁᵀᴼ (AUTO FLASH)	The flash fires when required. Recommended in most situations.
ϟ/ϟ (FORCED FLASH)	The flash fires whenever a picture is taken. Use for backlit subjects or for natural coloration when shooting in bright light.
Sϟ/ˢᴸᴼᵂ (SLOW SYNCHRO)	Capture both the main subject and the background under low light (note that brightly lit scenes may be overexposed).

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The flash may fire several times with each shot. Do not move the camera until shooting is complete.

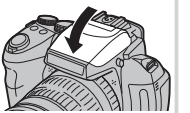
- The peripheral part of an image may be dark when using the flash.
- Remove lens hoods to prevent shadows in photos taken with the flash.

Red-Eye Removal

When Intelligent Face Detection is active (📖 54), and **ON** is selected for **RED EYE REMOVAL** in the setup menu (📖 103), red-eye removal is available in AUTO, , and SLOW.
Red-eye removal minimizes "***red-eye***" caused when light from the flash is reflected from the subject's retinas as shown in the illustration at right.

Turning the Flash Off

Lower the flash where flash photography is prohibited or to capture natural lighting under dim light. At slow shutter speeds, will be displayed to warn that pictures may be blurred; use of a tripod is recommended.



Optional Flash Units

The camera can be used with optional EF-42 and EF-20 clip flash units (📖 108).

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Using the Self-Timer

To use the self-timer, press the selector down (⏲) and choose from the following options:

Option	Description
OFF (OFF)	Self-timer off.
(AUTO RELEASE)	The shutter is released automatically when the camera detects the face of a cat or dog (📖 29).
(AUTO RELEASE)	The shutter is released automatically when the camera detects a human portrait subject facing the camera. Use for portraits of babies.
10 (10 SEC)	The shutter is released ten seconds after the shutter button is pressed. Use for self-portraits. The self-timer lamp on the front of the camera lights when the timer starts and begins to blink shortly before the photo is taken.
2 (2 SEC)	The shutter is released two seconds after the shutter button is pressed. Use to reduce blur caused by the camera moving when the shutter button is pressed. The self-timer lamp will blink as the timer counts down.

Burst Mode

If is selected for burst mode (📖 42), the camera will record burst of five photographs when the timer expires, improving your chances of getting the desired results in portraits taken with the self-timer.

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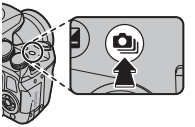
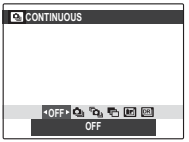
Continuous Shooting (Burst Mode)

Capture motion or automatically vary selected settings over a series of pictures.

Press the button and choose from the following options:





OFF: OFF
: TOP
: BEST FRAME CAPTURE
: AE BKT
: FILM SIMULATION BKT
: DYNAMIC RANGE BKT

- Focus and exposure are determined by the first frame in each series. The flash turns off automatically; the previously-selected flash mode is restored when continuous shooting is turned off.
- Frame rate varies with shutter speed, shooting conditions, and the number of pictures in each burst.
- The number of pictures that can be taken in a single burst varies with the scene and camera settings. The number of pictures that can be recorded depends on the memory available.

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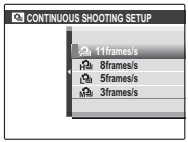
■ TOP n

The camera takes photographs while the shutter button is pressed. To choose the frame rate:

1 Press the selector right when the camera is in shooting mode.



2 Press the selector up or down to choose a frame rate and press **MENU/OK** to select and return to shooting mode.

■ BEST FRAME CAPTURE

The camera takes a series of pictures, starting before and ending after the shutter button is pressed. To choose the frame rate and number of shots:

1 Press the selector right when the camera is in shooting mode.

2 Highlight the current frame rate and press the selector right, then press selector up or down to choose a new value and press **MENU/OK** to select.

Some frame rates may reduce the number of shots available in Step 3.

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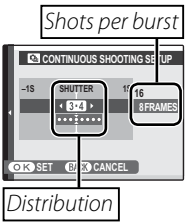
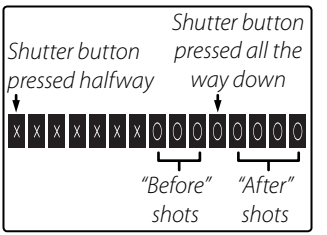
3 Highlight the number of shots and press the selector right. Press the selector up or down to choose the number of shots in each burst and left or right to choose their distribution (the number on the left is taken ***before*** and the number on the right ***after*** the shutter button is pressed). Press **MENU/OK** when settings are complete.



4 Press **DISP/BACK** to return to shooting mode.

5 Take photographs. The camera begins recording while the shutter button is pressed halfway, and completes the burst when the shutter button is pressed all the way down. The illustration shows a burst of eight shots, three before the shutter button is pressed and four after.



- If the shutter button is pressed all the way down before the number of frames selected for the "before" portion is recorded, the remaining frames will be taken after the shutter button is pressed all the way down.
- If the shutter button is pressed halfway for an extended period, the camera may record the burst before the shutter button is pressed all the way down.

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■ AE BKT

Each time the shutter button is pressed, the camera takes three shots: one using the metered value for exposure, the second overexposed by the amount selected for **AE BKT EV STEPS** in the shooting menu (📖 89), and the third underexposed by the same amount (the camera may not be able to use the selected bracketing increment if the amount of over- or under- exposure exceeds the limits of the exposure metering system).

■ FILM SIMULATION BKT

Each time the shutter button is pressed, the camera takes one shot and processes it to create three copies with different **FILM SIMULATION** settings (📖 86): **PROVIA/STANDARD** for the first, **Velvia/VIVID** for the second, and **ASTIA/SOFT** for the third.

■ DYNAMIC RANGE BKT

Each time the shutter button is pressed, the camera takes three shots at different **DYNAMIC RANGE** settings (📖 86): **100%** for the first, **200%** for the second, and **400%** for the third (**ISO** can not exceed 3200; values less than 400 are not available when **L** is selected for **IMAGE SIZE**).

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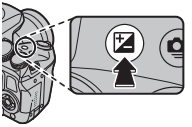
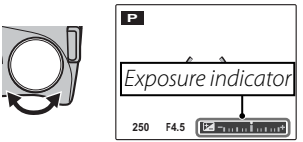
Exposure Compensation

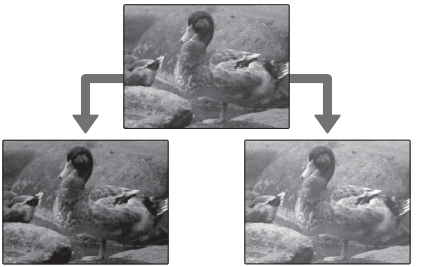
Use exposure compensation when photographing very bright, very dark, or high-contrast subjects.

Press the ± button to display the exposure indicator and rotate the command dial to choose a value.





The effect is visible in the display. Press the ± button again to select.



Choose negative values to reduce exposure

Choose positive values to increase exposure

- A ± icon and exposure indicator are displayed at settings other than ±0. Exposure compensation is not reset when the camera is turned off; to restore normal exposure control, choose a value of ±0.
- Turn the flash off when using exposure compensation.

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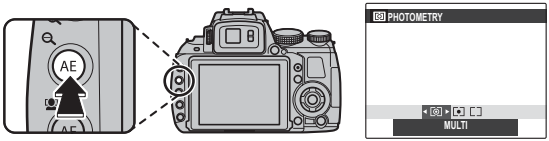
Metering

To choose how the camera meters exposure, press the **AE** button and then choose from the following options.



Option	Description
(MULTI)	Automatic scene recognition is used to adjust exposure for a wide range of shooting conditions.
(SPOT)	The camera meters lighting conditions at the center of the frame. Recommended when the background is much brighter or darker than the main subject.
(AVERAGE)	Exposure is set to the average for the entire frame. Provides consistent exposure across multiple shots with the same lighting, and is particularly effective for landscapes and portraits of subjects dressed in black or white.

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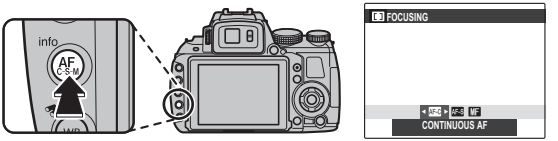
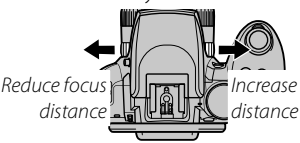
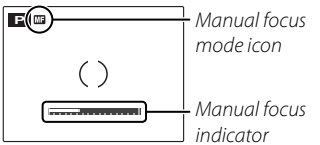
Focus Mode

To choose how the camera focuses, during still photography and movie recording press the **AF C-S-M** button and then choose from the following options.



Mode	Description
AF-S (SINGLE AF)	Focus locks while the shutter button is pressed halfway. Choose for stationary subjects.
AF-C (CONTINUOUS AF)	The camera continually adjusts focus to reflect changes in the distance to the subject even when the shutter button is not pressed halfway (note that this increases the drain on the batteries). ⊡ (CENTER) is automatically selected for autofocus mode (📖 50); if Intelligent Face Detection is on, the camera will continually adjust focus for the selected face. Choose for moving subjects.
MF (MANUAL FOCUS)	Focus manually using the focus ring. Rotate the ring left to reduce the focus distance, right to increase. The manual focus indicator indicates how closely the focus distance matches the distance to the subject in the focus brackets. Choose for manual control of focus or in situations in which the camera is unable to focus using autofocus (📖 36). Intelligent Face Detection turns off automatically.  

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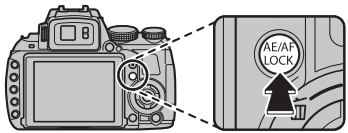
- Use of a tripod is recommended. Focus may be affected if the camera moves.
- If **ON** is selected for **MF FOCUS CHECK** in the setup menu (📖 105), the whole image will be magnified to assist focus when the focus ring is rotated.
- The camera will not focus when the focus ring is rotated all the way to the right. To focus at infinity, focus on a distant object.
- To focus using autofocus, press the **AE/AF LOCK** button. This can be used to quickly focus on a chosen subject in manual focus mode.



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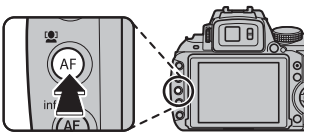
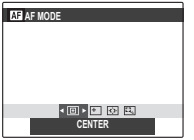
Autofocus Mode

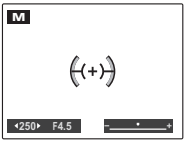
To choose how the camera selects the focus area when AF-S is selected for focus mode (📖 48), press the **AF** button and rotate the command dial. Note that regardless of the option selected, the camera will focus on the subject in the center of the monitor when macro mode is on (📖 38).



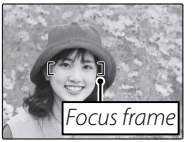


The following options are available:

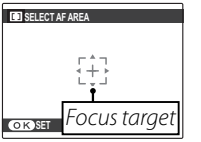
- ⊡ (CENTER): The camera focuses on the subject in the center of the frame. This option can be used with focus lock.



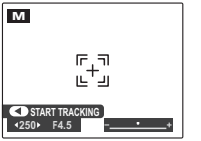
- ⊞ (MULTI): When the shutter button is pressed halfway, the camera detects high-contrast subjects near the center of the frame and selects the focus area automatically.



- ⊹ (AREA): The focus position can be chosen manually by pressing the selector up, down, left, or right and pressing **MENU/OK** when the focus brackets are in the desired position. Choose for precise focus when the camera is mounted on a tripod.



- ⊡ (TRACKING): Position the subject in the focus target and press the selector left. The camera will track the subject and adjust focus as it moves through the frame.



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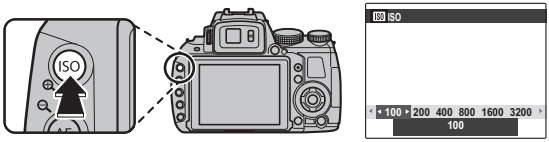
Sensitivity

To adjust the camera's sensitivity to light, press the **ISO** button and choose from the options below.



ISO

Higher values can reduce blur; note, however, that mottling may appear in pictures taken at high sensitivities.

100	**ISO**	12800
Bright	**Scene**	Dark
Less noticeable	**Noise (mottling)**	More noticeable

Option	Description
AUTO	Sensitivity is adjusted automatically in response to shooting conditions.
AUTO (3200) / AUTO (1600) / AUTO (800) / AUTO (400)	As above, except that sensitivity will not be raised above the value in parentheses.
12800 / 6400 / 3200 / 1600 / 800 / 400 / 200 / 100	Sensitivity is set to the specified value, which is shown in the display.

Sensitivity can also be adjusted in the shooting menu (📖 84).

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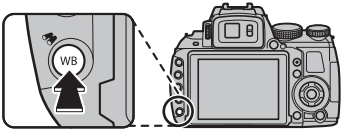
White Balance

For natural colors, press the **WB** button and choose a setting that matches the light source.



Option	Description
AUTO	White balance adjusted automatically.
CUSTOM	Measure a value for white balance.
☀	For subjects in direct sunlight.
☁	For subjects in the shade.
FL1	Use under "daylight" fluorescent lights.
FL2	Use under "warm white" fluorescent lights.
FL3	Use under "cool white" fluorescent lights.
💡	Use under incandescent lighting.

CUSTOM: Custom White Balance

Choose CUSTOM to adjust white balance for unusual lighting conditions. White balance measurement options will be displayed; frame a white object so that it fills the LCD monitor and press the shutter button all the way down to measure white balance.

- **If "COMPLETED!" is displayed**, press **MENU/OK** to set white balance to the measured value.
- **If "UNDER" is displayed**, raise exposure compensation (📖 46) and try again.
- **If "OVER" is displayed**, lower exposure compensation and try again.

☛

For greater precision, adjust **FILM SIMULATION**, **ISO**, and **DYNAMIC RANGE** before measuring white balance.

☛

- At settings other than CUSTOM, auto white balance is used with the flash.
- Results vary with shooting conditions. Play pictures back after shooting to check colors in the LCD monitor.

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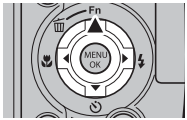
The Fn Button



Fn *button*

The role played by the **Fn** button can be selected using the **Fn Fn BUTTON** option in the setup menu (📖 102).
The following options are available:
IMAGE SIZE (📖 85)/**IMAGE QUALITY** (📖 85)/**RAW** (📖 104)/**DYNAMIC RANGE** (📖 86)/**FILM SIMULATION** (📖 86)/**FACE DETECTION** (📖 88)/**FACE RECOGNITION** (📖 88)/**INTELLIGENT DIGITAL ZOOM** (📖 87)/**MOVIE MODE** (📖 88)/**ELECTRONIC LEVEL** (📖 90)

☛
The **Fn Fn BUTTON** menu can also be displayed by pressing and holding the **Fn** button.

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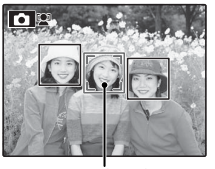
Intelligent Face Detection

Intelligent Face Detection allows the camera to automatically detect human faces and set focus and exposure for a face anywhere in the frame for shots that emphasize portrait subjects. Choose for group portraits (in horizontal or vertical orientations) to prevent the camera from focusing on the background.

To use Intelligent Face Detection, press **MENU/OK** to display the shooting menu and select **ON** for **FACE DETECTION**. Faces can be detected with the camera in vertical or horizontal orientation; if a face is detected, it will be indicated by a green border. If there is more than one face in the frame, the camera will select the face closest to the center; other faces are indicated by white borders.

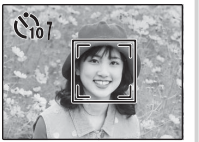


Green border

- In some modes, the camera may set exposure for the frame as a whole rather than the portrait subject.
- If the subject moves as the shutter button is pressed, their face may not be in the area indicated by the green border when the picture is taken.

Intelligent Face Detection

Intelligent Face Detection is recommended when using the self-timer for group- or self-portraits (📖 41).



When a picture taken with Intelligent Face Detection is displayed, the camera can automatically select facesforred-eyeremoval(📖 93),playbackzoom(📖 59), slide shows (📖 93), image search (📖 63), image disp. (📖 100), printing (📖 76), and cropping (📖 94).

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Face Recognition

The camera can store information on the face and personal details (name, relationship, and birth date) of portrait subjects and assign these subjects priority for Intelligent Face Detection or display their names and other information during playback.

Adding New Faces

Follow the steps below to add faces to the face recognition database.

1 Select **REGISTER**.
Select **REGISTER** for **FACE RECOGNITION** in the shooting menu.

To disable face recognition, select **OFF**.

2 Take a photograph.
After checking that the subject is facing the camera, frame the subject using the guides and take the photograph.

If an error is displayed, take the photograph again.

3 Enter face recognition data.
Press **MENU/OK** to display face recognition data and enter the following information:

- **NAME**: Enter a name of up to 14 characters and press **MENU/OK**.
- **BIRTHDAY**: Enter the subject's date of birth and press **MENU/OK**.
- **CATEGORY**: Choose the option that describes your relationship to the subject and press **MENU/OK**.

If you attempt to zoom in on the face of a person indicated by a green border in the face recognition database on their birthday, the camera will display their name and the message "Happy Birthday!".

Face recognition may not be available depending on the shooting mode.

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Viewing, Editing, and Deleting Existing Data

Follow the steps below to view, edit, or delete face recognition data.

1. Select **VIEW & EDIT** for **FACE RECOGNITION**.
2. Select a face.
3. View or edit face recognition data.
   The name, category, or birth date can be edited as described in Step 3 of "Adding New Faces" (55). To retake the photo, select **REPLACING IMAGE** and shoot a new portrait as described above.

To delete face recognition data for the selected subject, select **ERASE**.

Adding Faces Automatically

To automatically add frequently-photographed subjects to the face recognition database, select **ON** for **AUTO REGISTRATION** in the face recognition menu. If the camera detects a face that has been photographed many times without being added to the database, it will display a message prompting you to create a new face recognition entry. Press **MENU/OK** and enter face recognition data.

The camera may sometimes fail to recognize new faces automatically. If necessary, faces can be added manually using the **REGISTER** option.

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Face Recognition

The camera can store up to eight faces. If you attempt to add a ninth face, a confirmation dialog will be displayed; use **VIEW & EDIT** to make room for new faces by deleting existing data.

When Intelligent Face Detection (📖 54) is on and the frame contains multiple subjects from the face recognition database, the camera displays the name of the subject that will be used to set focus and exposure (the subject shown by the green frame). If no name is entered, the camera will show "---". Subjects identified using face recognition but not used to set focus and exposure are shown by orange frames, other subjects by white frames.

The camera may fail to identify subjects in the face recognition database if they are not facing the camera or are only partly in the frame, or if details of the subjects' faces or expressions differ markedly from those in the database.

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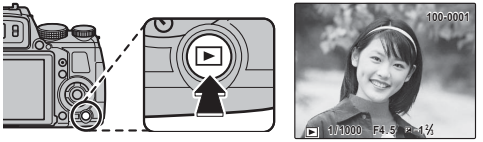
To view the most recent picture in the monitor, press the ▶ button.



Press the selector right to view pictures in the order recorded, left to view pictures in reverse order. Keep the selector pressed to scroll rapidly to the desired frame.

☛

Pictures taken using other cameras are indicated by a 🎁 ("gift image") icon during playback.

Continuous Shooting

In the case of pictures taken in continuous shooting mode, only the first frame of each series will be displayed. Press the selector down to view the other pictures in the series.

★ Favorites: Rating Pictures

To rate the picture currently displayed in full-frame playback, press **DISP/BACK** and press the selector up and down to select from zero to five stars.

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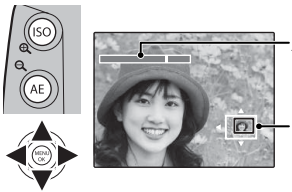
Playback Zoom

Press 🔍 to zoom in on pictures displayed in single-frame playback; 🔍 to zoom out. When the picture is zoomed in, the selector can be used to view areas of the image not currently visible in the display.



Press **DISP/BACK** or **MENU/OK** to exit zoom.

- Rotate the command dial to view other pictures without changing the zoom ratio.
- The maximum zoom ratio varies with image size. Playback zoom is not available with cropped or resized copies saved at a size of 640 or smaller.

Intelligent Face Detection

Pictures taken with Intelligent Face Detection (📖 54) are indicated by a 👤 icon. Press the 👤 button to zoom in on the subject selected with Intelligent Face Detection. You can then use the 🔍 and 🔍 buttons to zoom in and out.

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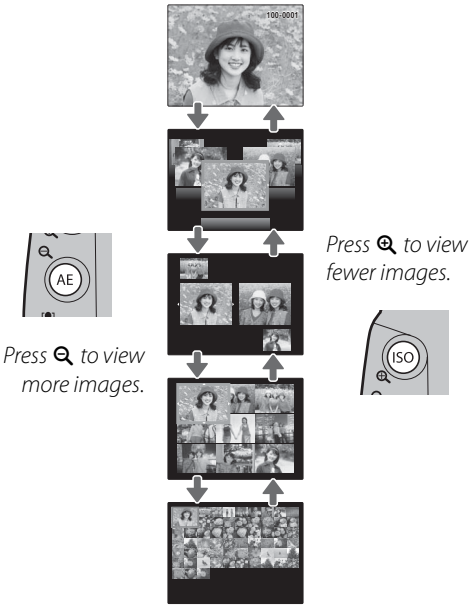
Multi-Frame Playback

To change the number of images displayed, press 🔍 in single-frame view.



Use the selector to highlight images and press **MENU/OK** to view the highlighted image full frame. In the nine- and hundred-frame displays, press the selector up or down to view more pictures.

Two-Frame Display

Two-frame display can be used to compare pictures taken in mode.

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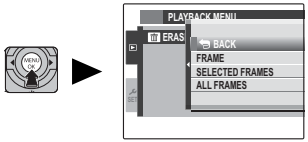
Deleting Pictures

To delete individual pictures, multiple selected pictures, or all pictures, press **MENU/OK**, select **ERASE** (📖 91), and choose from the options below. *Note that deleted pictures can not be recovered. Copy important pictures to a computer or other storage device before proceeding.*



Option	Description
FRAME	Press the selector left or right to scroll through pictures and press **MENU/OK** to delete the current picture (a confirmation dialog is not displayed).
SELECT FRAMES	Highlight pictures and press **MENU/OK** to select or deselect (pictures included in the photobook or print order are shown by ❗). When the operation is complete, press **DISP/BACK** to display a confirmation dialog, then highlight **OK** and press **MENU/OK** to delete the selected pictures.
ALL FRAMES	A confirmation dialog will be displayed; highlight **OK** and press **MENU/OK** to delete all unprotected pictures (if a memory card is inserted, only the pictures on the memory card will be affected; the pictures in internal memory are only deleted if no memory card is inserted). Pressing **DISP/BACK** cancels deletion; note that any pictures deleted before the button was pressed can not be recovered.

- Protected pictures can not be deleted. Remove protection from any pictures you wish to delete (📖 94).
- If a message appears stating that the selected images are part of a DPOF print order, press **MENU/OK** to delete the pictures.

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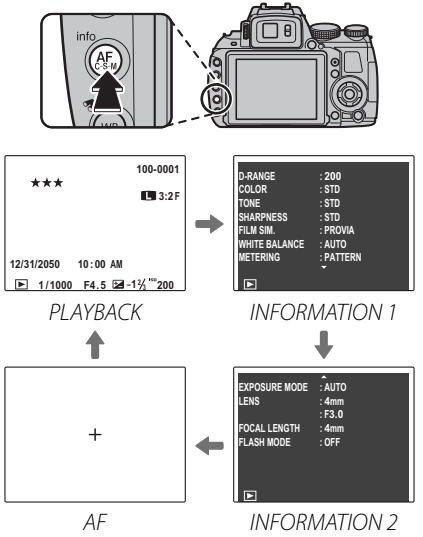
Viewing Photo Information

Photo information can be viewed by pressing the **info** button.



- Use the command dial to view other images.
- The active focus point is shown by a "+" icon.

Zooming in on the Focus Point

Press the ▼ button to zoom in on the focus point. Press **DISP/BACK** or **MENU/OK** to return to full-frame playback.

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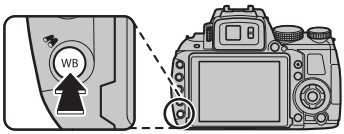
Image Search

Search for images by various criteria.

1 Press the ⚘ button during playback.



2 Highlight one of the following options and press **MENU/OK**:

Option	Description
BY DATE	Find all pictures taken on a selected date.
BY FACE	Find all pictures based on specified face information.
BY ★ FAVORITES	Find all pictures with a specified rating (📖 58).
BY SCENE	Find all pictures that match a selected scene.
BY TYPE OF DATA	Find all still pictures, all movies, all pictures taken in burst mode, or all RAW pictures.
BY UPLOAD MARK	Find all pictures selected for upload to a specified destination (📖 92).

3 Select a search condition. Only pictures that match the search condition will be displayed. To delete or protect selected pictures or to view the selected pictures in a slide show, press **MENU/OK** and choose from the following options:

Option	See page
ERASE	61
PROTECT	94
SLIDE SHOW	93

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PhotoBook Assist

Create books from your favorite photos.

Creating a PhotoBook

1 Select **PHOTOBOOK ASSIST** in the playback menu.

2 Highlight **NEW BOOK**.

3 Press **MENU/OK** to display the new book dialog.

4 Choose pictures for the new book.

- **SELECT FROM ALL**: Choose from all the pictures available.
- **SELECT BY IMAGE SEARCH**: Choose from pictures matching selected search conditions (📖 63).

☛

Neither photographs 640 or smaller nor movies can be selected for photobooks.

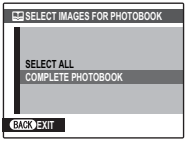
5 Scroll through the images and press the selector up to select or deselect the current image for inclusion in the book. To display the current image on the cover, press the selector down.

☛

The first picture selected automatically becomes the cover image. Press the selector down to select a different picture for the cover.

6 Press **MENU/OK** to exit when the book is complete.

7 Highlight **COMPLETE PHOTOBOOK**.



☛

Choose **SELECT ALL** to select all photos, or all photos matching the specified search conditions, for the book.

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8 Press **MENU/OK**. The new book will be added to the list in the photobook assist menu.

- Photobooks can contain up to 300 pictures.
- Books that contain no photos are automatically deleted.

PhotoBooks
Photobooks can be copied to a computer using the supplied MyFinePix Studio software.

Viewing PhotoBooks

Highlight a book in the photobook assist menu and press **MENU/OK** to display the book, then press the selector left and right to scroll through the pictures. Press **DISP/BACK** to return to the photobook assist menu.

Editing and Deleting PhotoBooks

1 Display the photobook and press **MENU/OK** to view book edit options.

2 Choose from the following options:
- **EDIT**: Edit the book as described in "Creating a PhotoBook" on page 64.
- **ERASE**: Delete the current photobook.

3 Follow the on-screen instructions.

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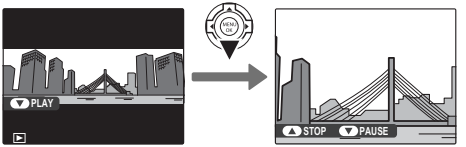
Viewing Panoramas

If you press the selector down when a panorama is displayed full frame, the camera will play back the picture from left to right or from bottom to top.



The following operations can be performed during playback:

Operation	Button	Description
Start/pause playback		**Press the selector down** to start playback. Press again to pause.
End playback		**Press the selector up** to end playback.

- Once displayed in full-frame playback, panoramas can be zoomed in or out using the zoom buttons.
- 3D panoramas play back in an endless loop (📖 31); the playback direction can be controlled by pressing the selector left or right. The camera will not turn off automatically while playback is in progress (📖 102).

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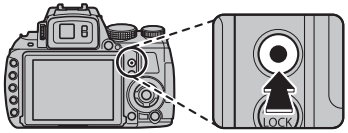
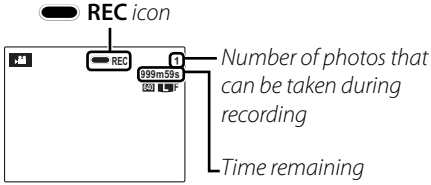
Recording Movies

Press ● to shoot a movie. During recording, the following indicators will be displayed and sound will be recorded via the built-in microphone (be careful not to cover the microphone during recording).





To end recording, press the ● button again. Recording ends automatically when the movie reaches maximum length or memory is full.

- Zoom can be adjusted while recording is in progress.
- If the subject is poorly lit, the AF-assist lamp may light to assist the focus operation. To turn the AF-assist lamp off, select **OFF** for **AF ILLUMINATOR** in the setup menu (📖 103).
- Exposure and white balance are adjusted automatically throughout recording. The color and brightness of the image may vary from that displayed before recording begins.
- Sounds made by the camera may be recorded.

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Taking Photographs during Recording

Press the shutter button to take a photograph during recording.

- See page 88 for information on choosing how photographs are recorded.
- The photo is saved separately from the movie and does not appear as part of the movie.

- Photos can not be taken while a high-speed movie is being recorded.
- The number of photos that can be taken is limited.

- The indicator lamp lights while movies are being recorded. Do not open the battery chamber during shooting or while the indicator lamp is lit. Failure to observe this precaution could prevent the movie from being played back.
- Vertical or horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.
- The temperature of the camera may rise if it is used to record movies for an extended period or if the ambient temperature is high. This is normal and does not indicate a malfunction.

Movie Frame Size

Before recording, select a frame size using the **MOVIE MODE** option in the shooting menu (88).

Option	Description
FULL HD **1920** (1920 × 1080)	Full HD (High Definition).
HD **1280** (1280 × 720)	High Definition.
640 (640 × 480)	Standard definition.
HS **640 × 480** (80fps)	High speed movie. Sound is not recorded, and focus, exposure, and white balance are not adjusted automatically. Black bands appear at the top and bottom of movies recorded at HS **320 × 112**.
HS **320 × 240** (160fps)	
HS **320 × 112** (320fps)	

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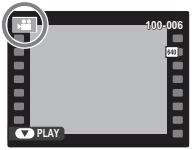
▶ Viewing Movies

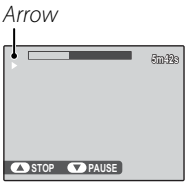
During playback (📖 58), movies are displayed in the monitor as shown at right. The following operations can be performed while a movie is displayed:



Operation	Description
Start/ pause playback	**Press the selector down** to start playback. Press again to pause. While playback is paused, you can press the selector left or right to rewind or advance one frame at a time.
End playback	**Press the selector up** to end playback.
Adjust speed	**Press the selector left or right** to adjust playback speed during playback.
Adjust volume	**Press MENU/OK** to pause playback and display volume controls. Press the selector up or down to adjust the volume and press **MENU/OK** to exit. Volume can also be adjusted from the setup menu.

Playback Speed

Press the selector left or right to adjust playback speed. Speed is shown by the number of arrows (▶ or ◀).



Viewing Movies on a Computer

Copy movies to the computer before viewing.

Do not cover the speaker during playback.

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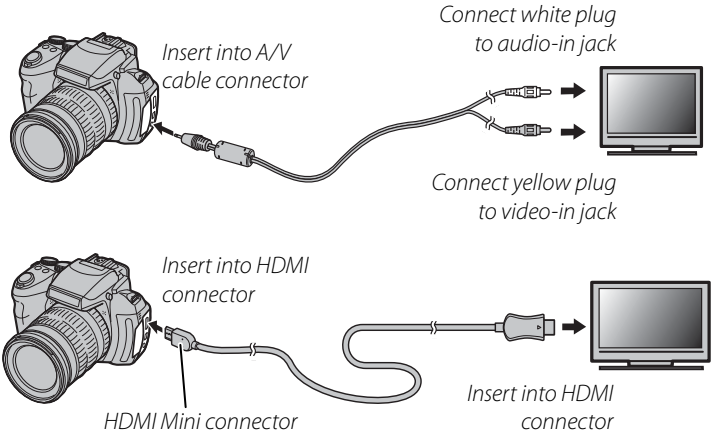
Viewing Pictures on TV

Connect the camera to a TV to show pictures to a group.

1 Turn the camera off.

2 Connect the camera using the supplied A/V cable or an HDMI cable available from third party suppliers.


Connect white plug to audio-in jack
Insert into A/V cable connector
Connect yellow plug to video-in jack
Insert into HDMI connector
HDMI Mini connector
Insert into HDMI connector

HDMI
An HDMI cable (available from third-party suppliers; 📖 107) can be used to connect the camera to **H**igh **D**efinition (HD) devices (playback only). The USB cable or optional A/V cable cannot be used while an HDMI cable is connected.

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3 Tune the television to the video or HDMI input channel. See the documentation supplied with the television for details.

4 Turn the camera on and press the ▶ button. The camera monitor turns off and pictures and movies are played back on the TV. Note that the camera volume controls have no effect on sounds played on the TV; use the television volume controls to adjust the volume.

☛
Image quality drops during movie playback.

✎
When connecting the cable, be sure the connectors are fully inserted.

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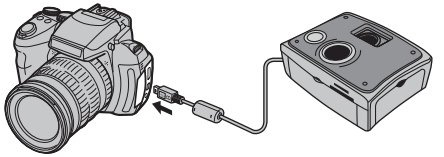
Printing Pictures via USB

If the printer supports PictBridge, the camera can be connected directly to the printer and pictures can be printed without first being copied to a computer. Note that depending on the printer, not all the functions described below may be supported.

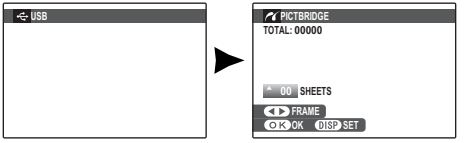
PictBridge

Connecting the Camera

1 Connect the supplied USB cable as shown and turn the printer on.



2 Turn the camera on. **USB** will be displayed in the monitor, followed by the PictBridge display shown below at right.

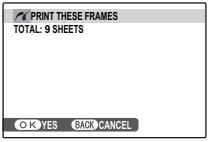


Printing Selected Pictures

1 Press the selector left or right to display a picture you wish to print.

2 Press the selector up or down to choose the number of copies (up to 99).

3 Repeat steps 1–2 to select additional pictures. Press **MENU/OK** to display a confirmation dialog when settings are complete.



4 Press **MENU/OK** to start printing.

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Printing the Date of Recording

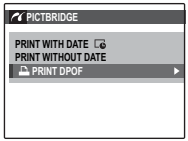
To print the date of recording on pictures, press **DISP/BACK** in steps 1–2 to display the PictBridge menu (see "Printing the DPOF Print Order," below). Press the selector up or down to highlight **PRINT WITH DATE** and press **MENU/OK** to return to the PictBridge display (to print pictures without the date of recording, select **PRINT WITHOUT DATE**).

If no pictures are selected when the **MENU/OK** button is pressed, the camera will print one copy of the current picture.

Printing the DPOF Print Order

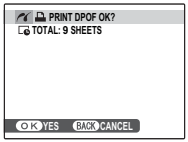
To print the print order created with **PRINT ORDER (DPOF)** in the playback menu (📖 97):

1 In the PictBridge display, press **DISP/BACK** to open the PictBridge menu.



2 Press the selector up or down to highlight **PRINT DPOF**.

3 Press **MENU/OK** to display a confirmation dialog.



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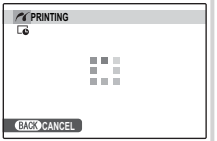
4 Press **MENU/OK** to start printing.

During Printing

The message shown at right is displayed during printing. Press **DISP/BACK** to cancel before all pictures are printed (depending on the printer, printing may end before the current picture has printed).



If printing is interrupted, turn the camera off and then on again.

Disconnecting the Camera

Confirm that "PRINTING" is not displayed in the monitor and turn the camera off. Disconnect the USB cable.

- Pictures can be printed from internal memory or a memory card that has been formatted in the camera.
- If the printer does not support date printing, the **PRINT WITH DATE** option will not be available in the PictBridge menu and the date will not be printed on the pictures in the DPOF print order.
- When pictures are printed via direct USB connection, page size, print quality, and border selections are made using the printer.

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Creating a DPOF Print Order

The **PRINT ORDER (DPOF)** option in the playback menu can be used to create a digital "print order" for PictBridge-compatible printers (📖 107) or devices that support DPOF.

DPOF

DPOF (**D**igital **P**rint **O**rder **F**ormat) is a standard that allows pictures to be printed from "print orders" stored in internal memory or on a memory card. The information in the order includes the pictures to be printed, date imprint, and the number of copies of each picture.

■ *WITH DATE / WITHOUT DATE*

1. Select playback mode and press **MENU/OK** to display the playback menu.
2. Highlight **PRINT ORDER (DPOF)** and press **MENU/OK**.
3. Highlight one of the following options and press **MENU/OK**:
   - **WITH DATE**: Print the date of recording on pictures.
   - **WITHOUT DATE**: Do not print the date of recording on pictures.
4. Press the selector left or right to display a picture you wish to include in or remove from the print order.

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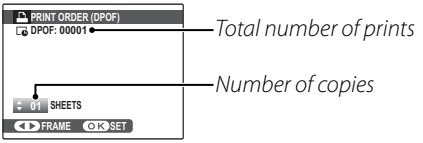
5 Press the selector up or down to choose the number of copies (up to 99). To remove a picture from the order, press the selector down until the number of copies is 0.



Intelligent Face Detection

If the current picture was created with Intelligent Face Detection, pressing sets the number of copies to the number of faces detected.

When pictures are printed via direct USB connection, page size, print quality, and border selections are made using the printer.

6 Repeat steps 4–5 to complete the print order. Press **MENU/OK** to save the print order when settings are complete, or **DISP/BACK** to exit without changing the print order.

7 The total number of prints is displayed in the monitor. Press **MENU/OK** to exit.

The pictures in the current print order are indicated by a icon during playback.

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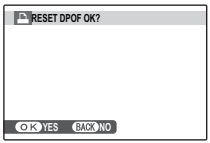
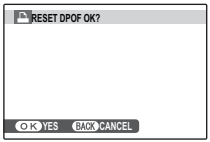
☛

- Remove the memory card to create or modify a print order for the pictures in internal memory.
- Print orders can contain a maximum of 999 pictures.
- If a memory card is inserted containing a print order created by another camera, the message shown at right will be displayed. Pressing **MENU/OK** cancels the print order; a new print order must be created as described above.



■ *RESET ALL*

To cancel the current print order, select **RESET ALL** in the **PRINT ORDER (DPOF)** menu. The confirmation shown at right will be displayed; press **MENU/OK** to remove all pictures from the order.



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Viewing Pictures on a Computer

The supplied software can be used to copy pictures to a computer, where they can be stored, viewed, organized, and printed. Before proceeding, install the software as described below. ***Do NOT connect the camera to the computer until installation is complete.***

Windows: Installing MyFinePix Studio

1 Confirm that the computer meets the following system requirements:

	Windows 7 (SP 1)/Windows Vista (SP 2) [1]	Windows XP (SP 3) [1]
CPU	3 GHz Pentium 4 or better (2.4 GHz Core 2 Duo or better) [2]	2 GHz Pentium 4 or better (2.4 GHz Core 2 Duo or better) [2]
RAM	1 GB or more	512 MB or more (1 GB or more) [2]
Free disk space	2 GB or more	
GPU	Supports DirectX 9 or later (recommended)	Supports DirectX 7 or later (required; performance not guaranteed with other GPUs)
Video	1,024 × 768 pixels or more with 24-bit color or better	
Other	• Built-in USB port recommended. Operation is not guaranteed with other USB ports. • .NET Framework 3.5 Service Pack 1 required when uploading images or using Map Viewer. • Internet connection (broadband recommended) required to install .NET Framework (if necessary), to use auto update feature, and when performing such tasks as sharing pictures on-line or via e-mail.	

1 Other versions of Windows are not supported. Only pre-installed operating systems are supported; operation is not guaranteed on home-built computers or computers that have been upgraded from earlier versions of Windows.
2 Recommended when displaying HD movies.

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2 Start the computer. Log in to an account with administrator privileges before proceeding.

3 Exit any applications that may be running and insert the installer CD in a CD-ROM drive.

> **Windows 7/Windows Vista**
> If an AutoPlay dialog is displayed, click **SETUP.EXE**. A "User Account Control" dialog will then be displayed; click **Yes** (Windows 7) or **Allow** (Windows Vista).

The installer will start automatically; click **Install MyFinePix Studio** and follow the on-screen instructions to install MyFinePix Studio and RAW FILE CONVERTER.

> **If the Installer Does Not Start Automatically**
> If the installer does not start automatically, select **Computer** or **My Computer** from the Start menu, then double-click the **FINEPIX** CD icon to open the FINEPIX CD window and double-click **setup** or **SETUP.EXE**.

4 If prompted to install Windows Media Player or DirectX, follow the on-screen instructions to complete installation.

5 Remove the installer CD from the CD-ROM drive when installation is complete. Store the installer CD in a dry location out of direct sunlight in case you need to re-install the software.

Installation is now complete. Proceed to "Connecting the Camera" on page 82.

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Macintosh: Installing FinePixViewer

1 Confirm that the computer meets the following system requirements:

CPU	PowerPC or Intel (Core 2 Duo or better) *
OS	Pre-installed versions of Mac OS X version 10.3.9–10.6 (visit *http://www.fujifilm.com/support/digital_cameras/compatibility/* for more information) Mac OS X version 10.7 and later not supported.
RAM	256 MB or more (1 GB or more) *
Free disk space	A minimum of 200 MB required for installation with 400 MB available when FinePixViewer is running
Video	800×600 pixels or more with thousands of colors or better
Other	Built-in USB port recommended. Operation is not guaranteed with other USB ports.

* Recommended when displaying HD movies.

2 After starting the computer and quitting any applications that may be running, insert the installer CD in a CD-ROM drive and double-click **Installer for Mac OS X**.

☛
To install RAW FILE CONVERTER, double-click **SILKYRFCEXInstaller**. RAW FILE CONVERTER is used to view RAW images on your computer.

3 An installer dialog will be displayed; click **Installing FinePixViewer** to start installation. Enter an administrator name and password when prompted and click **OK**, then follow the on-screen instructions to install FinePixViewer. Click **Exit** to quit the installer when installation is complete.

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4 Remove the installer CD from the CD-ROM drive. Note that you may be unable to remove the CD if Safari is running; if necessary, quit Safari before removing the CD. Store the installer CD in a dry location out of direct sunlight in case you need to re-install the software.

5 **Mac OS X 10.5 or earlier**: Open the "Applications" folder, start Image Capture, and select **Preferences…** from the Image Capture application menu. The Image Capture preferences dialog will be displayed; choose **Other…** in the **When a camera is connected, open** menu, then select **FPVBridge** in the "Applications/FinePixViewer" folder and click **Open**. Quit Image Capture.

Mac OS X 10.6: Connect the camera and turn it on. Open the "Applications" folder and start Image Capture. The camera will be listed under **DEVICES**; select the camera and choose **FPVBridge** from the **Connecting this camera opens** menu and click **Choose**. Quit Image Capture.

Installation is now complete. Proceed to "Connecting the Camera" on page 82.

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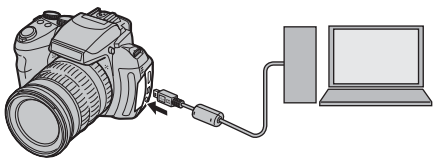
Connecting the Camera

1 If the pictures you wish to copy are stored on a memory card, insert the card into the camera (📖 12).

☛
Windows users may require the Windows CD when starting the software for the first time.

✎
Loss of power during transfer could result in loss of data or damage to internal memory or the memory card. Charge the battery before connecting the camera.

2 Turn the camera off and connect the supplied USB cable as shown, making sure the connectors are fully inserted. Connect the camera directly to the computer; do not use a USB hub or keyboard.



3 Turn the camera on and follow the on-screen instructions to copy pictures to the computer. To exit without copying pictures, click **Cancel**.

For more information on using the supplied software, start the application and select the appropriate option from the **Help** menu.

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- If a memory card containing a large number of images is inserted, there may be a delay before the software starts and you may be unable to import or save images. Use a memory card reader to transfer pictures.
- Make sure that the computer does not display a message stating that copying is in progress and that the indicator lamp is out before turning the camera off or disconnecting the USB cable (if the number of images copied is very large, the indicator lamp may remain lit after the message has cleared from the computer display). Failure to observe this precaution could result in loss of data or damage to internal memory or the memory card.
- Disconnect the camera before inserting or removing memory cards.
- In some cases, it may not be possible to access pictures saved to a network server using the supplied software in the same way as on a standalone computer.
- The user bears all applicable fees charged by the phone company or Internet service provider when using services that require an Internet connection.

Disconnecting the Camera

After confirming that the indicator lamp is out, follow the on-screen instructions to turn the camera off and disconnect the USB cable.

Uninstalling the Supplied Software

Only uninstall the supplied software when it is no longer required or before beginning reinstallation. After quitting the software and disconnecting the camera, drag the "FinePixViewer" folder from "Applications" into the Trash and select **Empty Trash** in the **Finder** menu (Macintosh), or open the control panel and use "Programs and Features" (Windows 7/Windows Vista) or "Add or Remove Programs" (Windows XP) to uninstall MyFinePix Studio. Under Windows, one or more confirmation dialogs may be displayed; read the contents carefully before clicking **OK**.

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Using the Menus: Shooting Mode

Use the shooting menus to adjust shooting settings. The options available vary with the shooting mode selected.

Using the Shooting Menu

1 Press **MENU/OK** to display the shooting menu.

2 Press the selector up or down to highlight the desired menu item.

3 Press the selector right to display options for the highlighted item.

4 Press the selector up or down to highlight the desired option.

5 Press **MENU/OK** to select the highlighted option.

6 Press **DISP/BACK** to exit from the menu.

Shooting Menu Options

Default values are shown in square brackets [ ].

EXR MODE [EXR AUTO]

Choose an option for EXR mode (📖 23).

Adv. MODE [ ]

Choose an advanced shooting mode (📖 24).

SCENE POSITION [SP1:] [SP2:]

Choose a scene for **SP1**/**SP2** mode (📖 28).

ISO ISO [AUTO (800)]

Control the camera's sensitivity to light (📖 51).

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IMAGE SIZE [L 4:3]

Choose the image size and aspect ratio at which pictures are recorded. Large pictures can be printed at large sizes with no drop in quality, while small pictures require less memory, allowing more pictures to be recorded.

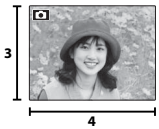
Size Versus Aspect Ratio

Size

Option	Prints at sizes up to
L	34 × 25 cm (13.5 × 10 in.)
M	24 × 18 cm (9.5 × 7 in.)
S	17 × 13 cm (7 × 5 in.)

Aspect ratio

4:3: Pictures have the same proportions as the camera display.



3:2: Pictures have the same proportions as a frame of 35 mm film.

16:9: Suited for display on High Definition (HD) devices.

IMAGE QUALITY [FINE]

Choose how much image files are compressed.

Option	Description
FINE	Low compression. Select for higher image quality.
NORMAL	High compression. Select this option to store more pictures.

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D-Rng DYNAMIC RANGE [AUTO]

Control contrast. Higher values are recommended for scenes that include both sunlight and deep shade or for increased contrast with such subjects as sunlight on water, brightly-lit autumn leaves, portraits taken against a blue sky, and white objects or people wearing white; note, however, that mottling may appear in pictures taken at higher values. If **AUTO** is selected, the camera will automatically select values between 100% and 400% in response to shooting conditions.

Option		Description
AUTO	R100 100%	Increase contrast when shooting indoors or under overcast skies.
	R200 200%	
	R400 400%	
R800 800%		Reduce loss of detail in highlights and shadows when photographing high-contrast scenes.
R1600 1600%		

☛

R1600 **1600%** and R800 **800%** are available only when **D-RANGE PRIORITY** is selected in **EXR** mode.

FILM SIMULATION [STD]

Simulate the effects of different types of film, including sepia and black-and-white.

Option	Description
STD **PROVIA/ STANDARD**	Standard color reproduction. Suited to a wide range of subjects, from portraits to landscapes.
V **Velvia/ VIVID**	A high-contrast palette of saturated colors, suited to nature photographs.
S **ASTIA/ SOFT**	A soft-toned palette of less saturated colors.
B **B&W**	Take pictures in black and white.
SEPIA **SEPIA**	Take pictures in sepia.

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WB SHIFT

White balance can be fine-tuned. Adjust the selected color axis (**R–Cy**=Red-Cyan or **B-Ye**=Blue–Yellow) by +3 to –3 in increments of one.

COLOR [MID]

Adjust color density (**HIGH**/**MID**/**LOW**).

TONE [STD]

Adjust contrast (**HARD**/**STD**/**SOFT**).

SHARPNESS [STD]

Choose whether to sharpen or soften outlines (**HARD**/**STD**/**SOFT**).

NOISE REDUCTION [STD]

Choose the amount of noise reduction (**HIGH**/**STD**/**LOW**).

INTELLIGENT SHARPNESS [OFF]

Select **ON** to process photos digitally for sharp, super high-resolution results.

- The time needed to record images increases.
- The effects are not visible in the display during shooting.
- Intelligent sharpness may turn off automatically in some modes.
- This option has no effect on photos taken in continuous mode.

INTELLIGENT DIGITAL ZOOM [OFF]

Intelligent digital zoom can be used to magnify the image by 1.4× or 2× while processing it for sharp, high-resolution results.

- Intelligent digital zoom may end when another mode is selected.
- Intelligent digital zoom may sometimes produce lower quality images than optical zoom.
- The time needed to record images increases.
- The effects are not visible in the display during shooting.
- Intelligent digital zoom is not available in continuous mode or during movie recording.

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ADVANCED ANTI BLUR [ON]

Select **ON** to enable advanced anti blur in EXR AUTO mode (📖 24).

FACE DETECTION

Choose whether the camera automatically detects and sets focus and exposure for human portrait subjects (📖 54).

FACE RECOGNITION

Add portrait subjects to the face recognition database. These subjects will be given priority during Intelligent Face Detection, and their names and other information can be viewed during playback (📖 55).

MOVIE MODE [FULL HD]

Choose a frame size for movies (📖 68).

STILL SHOOTING IN MOVIE [MOVIE PRIORITY]

Choose how the camera records photographs taken during movie recording (📖 68).

Option	Description
MOVIE PRIORITY	The camera takes a photograph without interrupting movie recording. Image size is determined by the option selected for **MOVIE MODE**.
STILL IMAGE PRIORITY	The camera interrupts filming to take the photograph and resumes filming automatically when recording is complete. Image size is determined by the option selected for **IMAGE SIZE**, but note that the photograph will be recorded at size **M** if **L** is selected.

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AE BKT EV STEPS [±⅓]

Choose the size of the exposure bracketing increment used when (AE bracketing) is selected in continuous shooting mode (📖 45).

Choose from increments of ±⅓ EV, ±⅔ EV, and ±1 EV (note that the camera may not be able to use the selected bracketing increment if the amount of over- or under- exposure exceeds the limits of the exposure metering system).

FLASH [±0]

Adjust flash brightness. Choose from values between +⅔ EV and –⅔ EV. The default setting is ±0. Note that the desired results may not be achieved depending on shooting conditions and the distance to the subject.

EXTERNAL FLASH [OFF]

Choose **ON** when using an optional flash unit (except Fujifilm products) mounted on the camera hot shoe.

- The flash may not fully light the subject at speeds faster than 1/1000 s.
- Use auto or custom white balance (📖 52).
- If the built-in flash is raised when **ON** is selected for **EXTERNAL FLASH**, the built-in flash will fire once to provide a signal for the optional flash unit to fire.
- External flash units can be used in **P**, **S**, **A**, **M** or EXR (and only) modes.
- Fujifilm external flash units do not require this setting.

- The camera can be used with flash units that provide aperture adjustment, external metering, and sensitivity control. Some flash units that are designed specifically for other cameras can not be used.
- For information on Fujifilm external flash units, see Accessories from FUJIFILM (📖 108).

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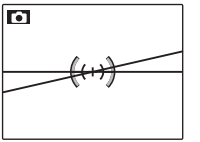
CUSTOM SET

Save settings for **P**, **S**, **A**, **M** and all EXR modes except EXR AUTO (📖 35).

ELECTRONIC LEVEL [OFF]



This option is useful to correct for camera tilt. When **ON** is selected, 2 lines are displayed across the screen as shown. If the lines stay perfectly overlapped, the camera is leveled.

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Using the Playback Menu

1. Press the ▶ button to enter playback mode.

2. Press **MENU/OK** to display the playback menu.

3. Press the selector up or down to highlight the desired menu item.

4. Press the selector right to display options for the highlighted item.

5. Press the selector up or down to highlight the desired option.

6. Press **MENU/OK** to select the highlighted option.

7. Press **DISP/BACK** to exit from the menu.

Playback Menu Options

PHOTOBOOK ASSIST

Create books from your favorite photos (📖 64).

ERASE

Delete all or selected pictures (📖 61).

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MARK FOR UPLOAD TO

Select pictures for upload to YouTube or Facebook using MyFinePix Studio (Windows only).

■ *Selecting Pictures for Upload*

1. Select **YouTube** to choose movies for upload to YouTube, **FACEBOOK** to choose photos and movies for upload to Facebook.
2. Press the selector left or right to display pictures and press **MENU/OK** to select or deselect. Press **DISP/BACK** to exit when all the desired pictures are selected.

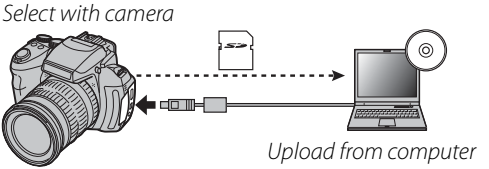
- Only movies can be selected for upload to YouTube.
- During playback, selected pictures are indicated by **YouTube** or **FACEBOOK** icons.

■ *RESET ALL: Deselecting All Pictures*

Choose **RESET ALL** to deselect all pictures. If the number of pictures affected is very large, a message will be displayed while the operation is in progress. Press **DISP/BACK** to exit before the operation is complete.

■ *Uploading Pictures (Windows Only)*

Selected pictures can be uploaded using the **YouTube**/**Facebook Upload** option in MyFinePix Studio.



For information on installing MyFinePix Studio and connecting the camera to a computer, see "Viewing Pictures on a Computer" (📖 78).

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SLIDE SHOW [MULTIPLE]

View pictures in an automated slide show. Choose the type of show and press **MENU/OK** to start.
Press **DISP/BACK** at any time during the show to view on-screen help. The show can be ended at any time by pressing **MENU/OK**.

Option	Description
NORMAL	Press selector left or right to go back or skip ahead one frame. Select **FADE-IN** for fade transitions between frames.
FADE-IN	
NORMAL	As above, except that camera automatically zooms in on faces selected with Intelligent Face detection.
FADE-IN	
MULTIPLE	Display several pictures at once.

The camera will not turn off automatically while a slide show is in progress.

RED EYE REMOVAL

If the current picture is marked with a icon to indicate that it was taken with Intelligent Face Detection, this option can be used to remove red-eye. The camera will analyze the image; if red-eye is detected, the image will be processed to create a copy with reduced red-eye.

1. Display the desired picture.
2. Select **RED EYE REMOVAL** in the playback menu.
3. Press **MENU/OK**.

- Red-eye may not be removed if the camera is unable to detect a face or the face is in profile. Results may differ depending on the scene. Red-eye can not be removed from pictures that have already been processed using red-eye removal or pictures created with other devices.
- The amount of time needed to process the image varies with the number of faces detected.
- Copies created with **RED EYE REMOVAL** are indicated by a icon during playback.

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PROTECT

Protect pictures from accidental deletion.

1. Select **PROTECT** in the playback menu.
2. Highlight one of the following options and press **MENU/OK**:
   - **FRAME**: Protect selected pictures. Press the selector left or right to view pictures and press **MENU/OK** to select or deselect. Press **DISP/BACK** when the operation is complete.
   - **SET ALL**: Protect all pictures.
   - **RESET ALL**: Remove protection from all pictures.

Protected pictures will be deleted when the memory card or internal memory is formatted (📖 100).

CROP

Create a cropped copy of the current picture.

1. Display the desired picture.
2. Select **CROP** in the playback menu.
3. Use the 🔍 and 🔍 buttons to zoom the image in and out and use the selector to scroll the picture until the desired portion is displayed.
4. Press **MENU/OK** to display a confirmation dialog.
5. Press **MENU/OK** again to save the cropped copy to a separate file.

Larger crops produce larger copies; all copies have an aspect ratio of 4:3. If the size of the final copy will be 640, **OK** will be displayed in yellow.

Intelligent Face Detection

If the picture was shot with Intelligent Face Detection (📖 54), 👤 will be displayed in the monitor. Press the 👤 button to zoom in on the selected face.

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RESIZE

Create a small copy of the current picture.

1. Display the desired picture.
2. Select **RESIZE** in the playback menu.
3. Highlight a size and press **MENU/OK** to display a confirmation dialog.
4. Press **MENU/OK** to save the resized copy to a separate file.

The sizes available vary with the size of the original image.

IMAGE ROTATE

Rotate pictures taken in tall orientation so that they are displayed in tall orientation in the LCD monitor.

1. Display the desired picture.
2. Select **IMAGE ROTATE** in the playback menu.
3. Press the selector down to rotate the picture 90° clockwise, up to rotate it 90° counterclockwise.
4. Press **MENU/OK**. The picture automatically be displayed in the selected orientation whenever it is played back on the camera.

- Protected pictures can not be rotated. Remove protection before rotating pictures (📖 94).
- The camera may not be able to rotate pictures created with other devices.

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COPY COPY

Copy pictures from internal memory to a memory card.

1. Select **COPY** in the playback menu.
2. Highlight one of the following options and press the selector right:
   - **INTERNAL MEMORY ➡ CARD**: Copy pictures from internal memory to a memory card.
   - **CARD ➡ INTERNAL MEMORY**: Copy pictures from a memory card to internal memory.
3. Highlight one of the following options and press **MENU/OK**:
   - **FRAME**: Copy selected pictures. Press the selector left or right to view pictures and press **MENU/OK** to copy the current picture.
   - **ALL FRAMES**: Copy all pictures.

- Copying ends when the destination is full.
- DPOF print information is not copied (📖 75).

VOICE MEMO

Add a voice memo to the current photograph. Holding the camera at a distance of about 20 cm, face the microphone and press **MENU/OK** to begin recording. Press **MENU/OK** again to end recording (recording ends automatically after 30 seconds).

- Voice memos can not be added to movies or protected pictures. Remove protection from pictures before recording voice memos.
- If a voice memo already exists for the current picture, the options will be displayed. Select **RE-REC** to replace the existing memo.

Playing Voice Memos

Pictures with voice memos are indicated by a icon during playback. To play the voice memo back, select **PLAY** for **VOICE MEMO** in the playback menu.

- The camera may not play voice memos recorded with other devices.
- Do not cover the speaker during playback.

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ERASE FACE RECOG.

Remove face recognition links from the current image. When this option is selected, the camera will zoom in on an area in the current picture that it has matched with a face in the face recognition database. If the match is not correct, press **MENU/OK** to remove the link to the face recognition database.

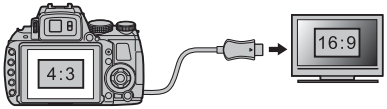
Face recognition links can not be removed from copies with a size of 640 or smaller.

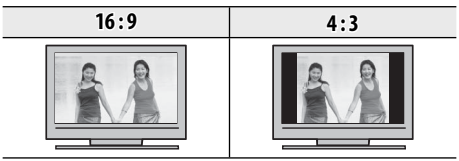
PRINT ORDER (DPOF)

Select pictures for printing on DPOF- and PictBridge-compatible devices (📖 73).

DISP. ASPECT [4:3]

Choose how High Definition (HD) devices display pictures with an aspect ratio of 4 : 3 (this option is available only when an HDMI cable is connected). Select **16:9** to display the image so that it fills the screen with its top and bottom cropped out, **4:3** to display the entire image with black bands at either side.





Photographs with an aspect ratio of 16 : 9 are displayed full screen, those with an aspect ratio of 3 : 2 in a black frame.

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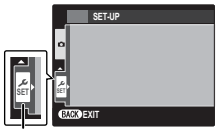
Using the Setup Menu

1 Display the setup menu.

1.1 Press **MENU/OK** to display the menu for the current mode.

1.2 Press the selector left to highlight a left tab.

1.3 Press the selector up or down to select SET. The setup menu appears.



Tab

2 Adjust settings.

2.1 Press the selector right to activate the setup menu.

2.2 Press the selector up or down to highlight a menu item.

2.3 Press the selector right to display options for the highlighted item.

2.4 Press the selector up or down to highlight an option.

2.5 Press **MENU/OK** to select the highlighted option.

2.6 Press **DISP/BACK** to exit from the menu.

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Setup Menu Options

Default values are shown in square brackets [ ].

DATE/TIME

Set the camera clock (16).

TIME DIFFERENCE [HOME]

Switch the camera clock instantly from your home time zone to the local time at your destination when traveling. To specify the difference between local time and your home time zone:

1. Highlight **LOCAL** and press the selector right.
2. Use the selector to choose the time difference between local time and your home time zone.
3. Press **MENU/OK**.

To switch between local time and your home time zone, highlight **LOCAL** or **HOME** and press **MENU/OK**.

Option	Description
HOME	Switch to the time currently selected for **DATE/TIME** (see above).
LOCAL	Switch to local time. If this option is selected, and the time and date will be displayed in yellow for three seconds each time the camera is turned on.

言語/LANG.

Choose a language.

SILENT MODE [OFF]

Select **ON** to disable the speaker, flash, and AF-assist illuminator in situations in which camera sounds or lights may be unwelcome (note that the flash will still fire in mode).

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RESET

Reset all settings except **DATE/TIME**, **TIME DIFFERENCE**, **BACKGROUND COLOR**, and **VIDEO SYSTEM** to default values.

1. Highlight **RESET** and press the selector right to display a confirmation dialog.
2. Highlight **OK** and press **MENU/OK**.

FORMAT

If a memory card is inserted in the camera, this option will format the memory card. If no memory card is inserted, this option will format internal memory.

- All data—including protected pictures—will be deleted from the memory card or internal memory. Be sure important files have been copied to a computer or other storage device.
- Do not open the battery-chamber cover during formatting.

IMAGE DISP. [1.5 SEC]

Choose how long pictures are displayed in the LCD monitor after shooting.

Option	Description
3 SEC	Pictures are displayed for three seconds (**3 SEC**) or 1.5 seconds (**1.5 SEC**). Colors may differ slightly from those in the final image.
1.5 SEC	
ZOOM (CONTINUOUS)	Pictures are displayed until the **MENU/OK** button is pressed.
OFF	Pictures are not displayed after shooting.

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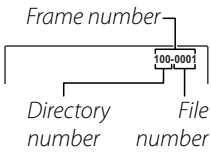
FRAME NO. [CONT.]



New pictures are stored in image files named using a four-digit file number assigned by adding one to the last file number used. The file number is displayed during playback as shown at right. **FRAME NO.** controls whether file numbering is reset to 0001 when a new memory card is inserted or the current memory card or internal memory is formatted.

Option	Description
CONTINUOUS	Numbering continues from the last file number used or the first available file number, whichever is higher. Choose this option to reduce the number of pictures with duplicate file names.
RENEW	Numbering is reset to 0001 after formatting or when a new memory card is inserted.

- If the frame number reaches 999-9999, the shutter release will be disabled (📖 118).
- Selecting **RESET** (📖 100) sets **FRAME NO.** to **CONTINUOUS** but does not reset the file number.
- Frame numbers for pictures taken with other cameras may differ.

OPERATION VOL. [🔊]

Adjust the volume of the sounds produced when camera controls are operated. Choose **OFF** (mute) to disable control sounds.

SHUTTER VOLUME [🔊]

Adjust the volume of the sounds produced when the shutter is released. Choose **OFF** (mute) to disable the shutter sound.

SHUTTER SOUND [♪1]

Choose the sound made by the shutter.

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PLAYBACK VOLUME [7]

Adjust the volume for movie and voice memo playback.

LCD BRIGHTNESS [0]

Control the brightness of the display.

MONITOR SUNLIGHT MODE [OFF]

Select **ON** to make the display in the monitor easier to read in bright light.

EVF/LCD MODE [30fps]

Choose **30 fps** to increase battery life, **50 fps** for improved display quality.

AUTO POWER OFF [2 MIN]

Choose the length of time before the camera turns off automatically when no operations are performed. Shorter times increase battery life; if **OFF** is selected, the camera must be turned off manually. Note that in some situations the camera turns off automatically even when **OFF** is selected.

QUICK START MODE [OFF]

Allow the camera to restart in a fast manner after turned off (**ON**/**OFF**).

This option will increase drain on the battery. Quick start mode is cancelled automatically if no operations are performed for about 20 minutes.

Fn Fn BUTTON [🔍]

Choose the role played by the **Fn** button (📖 53).

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DUAL IS MODE [(( ))1●)]

Choose from the following image stabilization options:

Option	Description
(( ))1● CONTINUOUS + MOTION	Image stabilization on. If **+ MOTION** is selected, the camera will adjust shutter speed to reduce motion blur when a moving objects are detected.
(( ))1 CONTINUOUS	
(( ))2● SHOOTING + MOTION	As above, except that image stabilization is performed only when the shutter button is pressed halfway or the shutter is released.
(( ))2 SHOOTING ONLY	
OFF	Image stabilization off. Choose this option when using a tripod.

+ MOTION has no effect when sensitivity is set to a fixed value, and may also be unavailable at some other combinations of settings. The effect may vary with lighting conditions and the speed at which the object is moving.

RED EYE REMOVAL [ON]

Choose **ON** to remove red-eye effects caused by the flash when shooting with Intelligent Face Detection.

- Red-eye reduction is performed only when a face is detected.
- Red-eye removal is not available with RAW images.

AF ILLUMINATOR [ON]

If **ON** is selected, the AF-assist illuminator will light to assist autofocus.

- The camera may be unable to focus using the AF-assist illuminator in some cases. If the camera is unable to focus in macro mode, try increasing the distance to the subject.
- Avoid shining the AF-assist illuminator directly into your subject's eyes.

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AE/AF-LOCK MODE [P]

If **AE&AF ON WHEN PRESSING** is selected, exposure and/or focus will lock while the **AE/AF LOCK** button is pressed. If **AE&AF ON/OFF SWITCH** is selected, exposure and/or focus will lock while the **AE/AF LOCK** button is pressed and remain locked until the button is pressed again (📖 37).

AE/AF-LOCK BUTTON [AE-L]

Choose whether the **AE/AF LOCK** button locks only exposure, only focus, or both exposure and focus (**AE-L** / **AF-L** / **AE+AF**).

RAW [OFF]

Choose **RAW+JPEG** or **RAW** to record RAW pictures (note that because RAW data are not processed on the camera, RAW pictures must be copied to a computer for processing). If **RAW+JPEG** is selected, JPEG copies will also be recorded. Choose **OFF** to record pictures in JPEG format only.

To convert RAW files for display on a computer, use the supplied RAW File Converter software.

Crop, resize, and red-eye removal options are not available with RAW images during playback. The maximum zoom available when viewing RAW images is 3.2×.

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MF FOCUS CHECK [ON]

If **ON** is selected, the image will be magnified in the display to assist focus when the focus ring is rotated in manual focus mode (📖 48). The camera must be in manual focus mode.

SAVE ORG IMAGE [OFF]

Choose **ON** to save unprocessed copies of seamless 360 panoramas or pictures taken using **RED EYE REMOVAL**, **PRO LOW-LIGHT MODE**, or **PRO FOCUS MODE**.

AUTOROTATE PB [ON]

Choose **ON** to automatically rotate "tall" (portrait-orientation) pictures during playback.

BACKGROUND COLOR

Choose a color scheme.

GUIDANCE DISPLAY [ON]

Choose whether to display tool tips.

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VIDEO SYSTEM

Choose a video mode for connection to a TV.

Option	Description
NTSC	Select this mode for connection to video devices in North America, the Caribbean, parts of Latin America, and some East Asian countries.
PAL	Select this mode for connection to video devices in the United Kingdom and much of Europe, Australia, New Zealand, and parts of Asia and Africa.

CUSTOM RESET

Reset all settings for mode **C**. A confirmation dialog will be displayed, press the selector up or down to highlight **OK** and press **MENU/OK**.

DATE STAMP [OFF]

Stamp the time and/or date of recording on photographs as they are taken.

Option	Description
31+🕘	Stamp new photographs with the date and time of recording.
31	Stamp new photographs with the date of recording.
OFF	Do not stamp the time and date on new photographs.

- Time and date stamps can not be deleted. Turn **DATE STAMP** off to prevent time and date stamps appearing on new photographs.
- If the camera clock is not set, you will be prompted to set the clock to the current date and time (📖 16).
- We recommend that you turn the DPOF "print date" option off when printing images with a time and date stamp (📖 75).
- Time and date stamps do not appear on movies, panoramas, or 3D photos.

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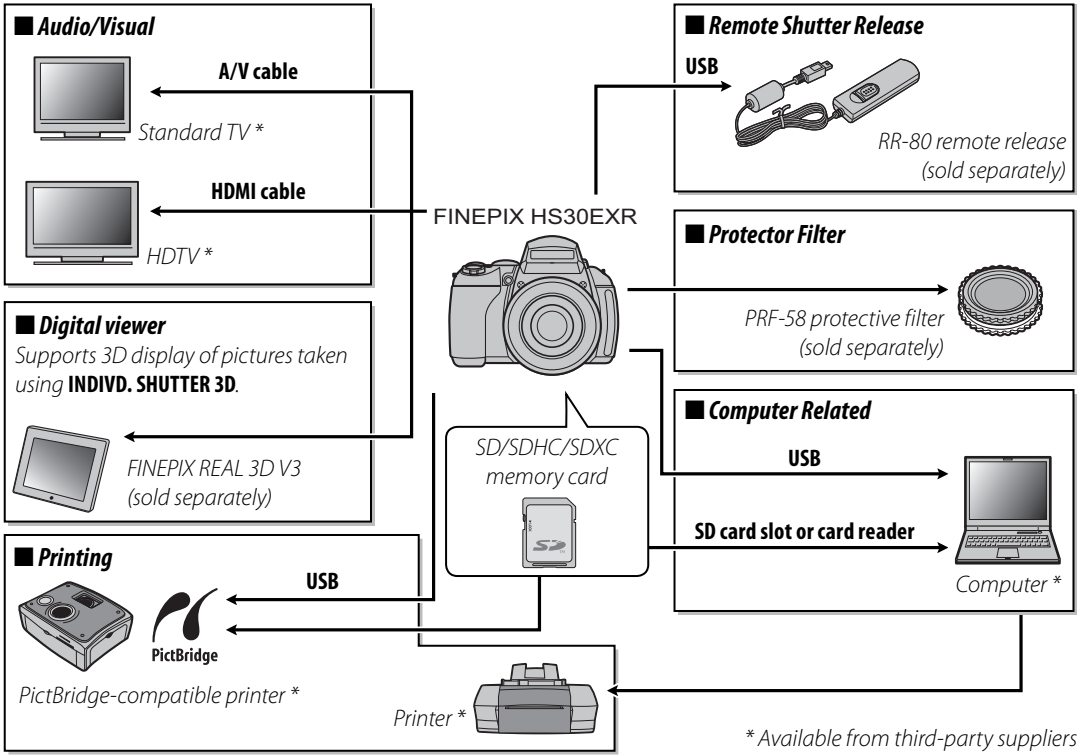
Optional Accessories

The camera supports a wide range of accessories from FUJIFILM and other manufacturers.



* Available from third-party suppliers

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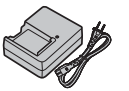
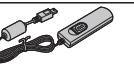
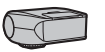
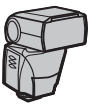
Accessories from FUJIFILM

The following optional accessories are available from FUJIFILM. For the latest information on the accessories available in your region, check with your local FUJIFILM representative or visit *http://www.fujifilm.com/products/digital_cameras/index.html*.

Rechargeable Li-ion batteries	**NP-W126**: Additional large-capacity NP-W126 rechargeable batteries can be purchased as required.	
Battery chargers	**BC-W126**: Replacement battery chargers can be purchased as required. The BC-W126 charges an NP-W126 battery in about 150 minutes at +20 °C (+68 °F).	
Remote releases	**RR-80**: Use to reduce camera shake or keep the shutter open during a time exposure.	
Lens hoods	**LH-HS10**: Protect the lens and prevent glare and lens flare.	
Shoe-mounted flash units	**EF-20**: This hot-shoe clip-on flash unit has a guide number of 20 (ISO 100), supports i-TTL, can be angled up to 90° for bounce-flash photography, and takes two AA 1.5 V batteries.	
	EF-42: This hot-shoe clip-on flash unit has a guide number of 42 (ISO 100), features 24–105 mm auto zoom, supports i-TTL, can be angled up to 90° for bounce-flash photography, and takes four AA 1.5 V batteries.	
Protector Filter	**PRF-58**: Protect the lens from scratches caused by sand, dust, and other foreign objects when shooting outdoors.	

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Caring for the Camera

To ensure continued enjoyment of the product, observe the following precautions.

Storage and Use

If the camera will not be used for an extended period, remove the battery and memory card. Do not store or use the camera in locations that are:

- exposed to rain, steam, or smoke
- very humid or extremely dusty
- exposed to direct sunlight or very high temperatures, such as in a closed vehicle on a sunny day
- extremely cold
- subject to strong vibration
- exposed to strong magnetic fields, such as near a broadcasting antenna, power line, radar emitter, motor, transformer, or magnet
- in contact with volatile chemicals such as pesticides
- next to rubber or vinyl products

■ *Water and Sand*

Exposure to water and sand can also damage the camera and its internal circuitry and mechanisms. When using the camera at the beach or seaside, avoid exposing the camera to water or sand. Do not place the camera on a wet surface.

■ *Condensation*

Sudden increases in temperature, such as occur when entering a heated building on a cold day, can cause condensation inside the camera. If this occurs, turn the camera off and wait an hour before turning it on again. If condensation forms on the memory card, remove the card and wait for the condensation to dissipate.

Cleaning

Use a blower to remove dust from the lens and monitor, then gently wipe with a soft, dry cloth. Any remaining stains can be removed by wiping gently with a piece of FUJIFILM lens-cleaning paper to which a small amount of lens-cleaning fluid has been applied. Care should be taken to avoid scratching the lens or monitor. The camera body can be cleaned with a soft, dry cloth. Do not use alcohol, thinner, or other volatile chemicals.

Traveling

Keep the camera in your carry-on baggage. Checked baggage may suffer violent shocks that could damage the camera.

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Problems and Solutions

Power and Battery

Problem	Solution
The camera does not turn on.	• **The battery is exhausted**: Charge the battery or insert a fully-charged spare battery (📖 9). • **The battery is inserted incorrectly**: Reinsert in the correct orientation (📖 10). • **The battery-chamber cover is not latched**: Latch the battery-chamber cover (📖 10).
The battery runs down quickly.	• **The battery is cold**: Warm the battery by placing it in a pocket or other warm place and reinsert it in the camera immediately before taking a picture. • **There is dirt on the battery terminals**: Clean the terminals with a soft, dry cloth. • **ON is selected for MONITOR SUNLIGHT MODE**: Select **OFF** to reduce the drain on the battery (📖 4). • **is selected for shooting mode**: Select mode to reduce the drain on the battery (📖 22). • **TRACKING is selected for AF MODE**: Select a different AF mode (📖 50). • **is selected for focus mode**: Select a different focus mode (📖 48). • **The battery has been charged many times**: The battery has reached the end of its charging life. Purchase a new battery.
The camera turns off suddenly.	**The battery is exhausted**: Charge the battery or insert a fully-charged spare battery (📖 9).
Charging does not start.	Reinsert the battery in the correct orientation and make sure that the charger is plugged in (📖 9).
Charging is slow.	Charge the battery at room temperature (📖 vi).
The charging lamp lights, but the battery does not charge.	• **There is dirt on the battery terminals**: Clean the terminals with a soft, dry cloth. • **The battery has been charged many times**: The battery has reached the end of its charging life. Purchase a new battery. If the battery still fails to charge, contact your FUJIFILM dealer. • **The battery is too hot or too cold**: Wait for the battery temperature to stabilize (📖 9).

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Menus and Displays

Problem	Solution
Menus and displays are not in English.	Select **ENGLISH** for 言語/LANG. (📖 16, 99).

Shooting

Problem	Solution
No picture is taken when the shutter button is pressed.	• **Memory is full**: Insert a new memory card or delete pictures (📖 12, 61). • **Memory is not formatted**: Format the memory card or internal memory (📖 100). • **There is dirt on the memory card contacts**: Clean the contacts with a soft, dry cloth. • **The memory card is damaged**: Insert a new memory card (📖 12). • **The battery is exhausted**: Charge the battery or insert a fully-charged spare battery (📖 9). • **The camera has turned off automatically**: Turn the camera on (📖 15). • **The indicator lamp was orange when you attempted to record a panorama**: Wait until the indicator lamps turns off (📖 20).
The LCD monitor goes dark after shooting.	The LCD monitor may darken while the flash charges. Wait for the flash to charge (📖 39).
The camera does not focus.	• **The subject is close to the camera**: Select macro mode (📖 38). • **The subject is far away from the camera**: Cancel macro mode (📖 38). • **The subject is not suited to autofocus**: Use focus lock (📖 36).
Pictures are not the same size.	If AUTO is selected for **IMAGE SIZE** in EXR AUTO mode, the camera will optimize not only sensitivity and other settings, but also image size. To record all pictures at the same size, choose another shooting mode or select another option for **IMAGE SIZE** (📖 85).
Macro mode is not available.	Choose a different shooting mode (📖 22).
Intelligent Face Detection is not available.	**Intelligent Face Detection is not available in the current shooting mode**: Choose a different shooting mode (📖 22).

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Problem	Solution
No face is detected.	• **The subject's face is obscured by sunglasses, a hat, long hair, or other objects**: Remove the obstructions. • **The subject's face occupies only a small area of the frame**: Change the composition so that the subject's face occupies a larger area of the frame (📖 36). • **The subject's head is tilted or horizontal**: Ask the subject to hold their head straight. • **The camera is tilted**: Keep the camera level (📖 18). • **The subject's face is poorly lit**: Shoot in bright light.
Wrong subject is selected.	The selected subject is closer to the center of the frame than the main subject. Recompose the picture or turn face detection off and frame the picture using focus lock (📖 36).
The flash does not fire.	• **The flash is lowered**: Raise the flash (📖 39). • **The flash is not available in the current shooting mode**: Choose a different shooting mode (📖 22). • **The camera is in super macro or continuous shooting mode**: Turn super macro and continuous shooting modes off (📖 38). • **The battery is exhausted**: Charge the battery or insert a fully-charged spare battery (📖 9). • **The camera is in silent mode**: Turn silent mode off (📖 99). • **The flash is not raised**: Raise the flash (📖 39).
Some flash modes are not available.	• **The desired flash mode is not available in the current shooting mode**: Choose a different shooting mode (📖 22). • **The camera is in silent mode**: Turn silent mode off (📖 99).
The flash does not fully light the subject.	• **The subject is not in range of the flash**: Position the subject in range of the flash (📖 122). • **The flash window is obstructed**: Hold the camera correctly (📖 18). • **Fast shutter speed selected**: Choose a slower shutter speed (📖 33, 34).
Pictures are blurred.	• **The lens is dirty**: Clean the lens (📖 109). • **The lens is blocked**: Keep objects away from the lens (📖 18). • **! AF is displayed during shooting and the focus frame is displayed in red**: Check focus before shooting (📖 116). • **! is displayed during shooting**: Use the flash or a tripod (📖 40).

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Problem	Solution
Pictures are mottled.	• **A slow shutter speed is selected at high temperatures**: This is normal and does not indicated a malfunction. • **The camera has been used continuously at high temperatures or a temperature warning is displayed**: Turn the camera off and wait for it to cool down.
Sounds made by the camera are recorded with movies.	**Intelligent Face Detection is on**: Turn Intelligent Face Detection off (📖 54).

Playback

Problem	Solution
Pictures are grainy.	The pictures were taken with a different make or model of camera.
Playback zoom unavailable.	The picture has been saved at 640, or is from another make or model of camera (📖 59).
No sound in voice memo and movie playback.	• **The camera is in silent mode**: Turn silent mode off (📖 99). • **Playback volume is too low**: Adjust playback volume (📖 102). • **The microphone was obstructed**: Hold the camera correctly during recording (📖 2). • **The speaker is obstructed**: Hold the camera correctly during playback (📖 2).
Selected pictures are not deleted.	Some of the pictures selected for deletion are protected. Remove protection using the device with which it was originally applied (📖 94).
File numbering is unexpectedly reset.	The battery-chamber cover was opened while the camera was on. Turn the camera off before opening the battery-chamber cover (📖 15).

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Connections/Miscellaneous

Problem	Solution
No picture or sound.	• **The camera is not properly connected**: Connect the camera properly (📖 70). • **An A/V cable was connected during movie playback**: Connect the camera once movie playback has ended. • **Input on the television is set to "TV"**: Set input to "VIDEO". • **The camera is not set to the correct video standard**: Match the camera **VIDEO SYSTEM** setting to the TV (📖 106). • **The volume on the TV is too low**: Adjust the volume.
No color	Match the camera **VIDEO SYSTEM** setting to the TV (📖 106).
The computer does not recognize the camera.	Be sure the camera and computer are correctly connected (📖 82).
Can not transfer RAW or JPEG files to computer.	Use the bundled software to transfer pictures (📖 78).
Pictures can not be printed.	• **The camera is not properly connected**: Connect the camera correctly (📖 72). • **The printer is off**: Turn the printer on.
Only one copy is printed/ the date is not printed.	The printer is not PictBridge compatible.
The camera is unresponsive.	• **Temporary camera malfunction**: Remove and reinsert the battery (📖 10). • **The battery is exhausted**: Charge the battery (📖 9) or insert a fully-charged spare battery (📖 10).
The camera does not function as expected.	Remove and reinsert the battery (📖 10). If the problem persists, contact your FUJIFILM dealer.
No sound.	Turn silent mode off (📖 99).

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Problem	Solution
Hue or content of display changes unexpectedly.	Choose **OFF** for **MONITOR SUNLIGHT MODE** (📖 4).
Time and date stamps	• **Time and date stamps are not correct**: Set the camera clock (📖 16). • **Time and date stamps appear on photographs**: Time and date stamps can not be deleted. To prevent stamps appearing on new photographs, select **OFF** for **DATE STAMP** (📖 106).
FinePixViewer can not be installed or does not start.	FinePixViewer does not support Mac OS X version 10.7 or later. Use one of the applications supplied with Mac OS X or purchase other software.

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Warning Messages and Displays

The following warnings are displayed in the LCD monitor:

Warning	Description
(red)	Low battery. Charge the battery (📖 9) or insert a fully-charged spare battery (📖 10).
(blinks red)	Battery exhausted. Charge the battery (📖 9) or insert a fully-charged spare battery (📖 10).
	Slow shutter speed. Pictures may be blurred; use the flash or a tripod.
! AF (displayed in red with red focus frame)	The camera can not focus. Try one of the following solutions: • Use focus lock to focus on another subject at the same distance, then recompose the picture (📖 36). • Use macro mode to focus when taking close-ups (📖 38).
Aperture or shutter speed displayed in red	The subject is too bright or too dark and the picture will be over- or under-exposed. If the subject is dark, use the flash (📖 39).
FOCUS ERROR	Camera malfunction. Turn the camera off and then on again. If the message persists, contact a FUJIFILM dealer.
TURN OFF THE CAMERA AND TURN ON AGAIN	
LENS CONTROL ERROR	
CARD NOT INITIALIZED	• **The memory card or internal memory is not formatted or the memory card was formatted in a computer or other device**: Format the memory card or internal memory using the **FORMAT** option in the camera setup menu (📖 100). • **The memory card contacts require cleaning**: Clean the contacts with a soft, dry cloth. If the message is repeated, format the card (📖 100). If the message persists, replace the card. • **Camera malfunction**: Contact a FUJIFILM dealer.
PROTECTED CARD	The memory card is locked. Unlock the card (📖 12).
BUSY	The memory card is incorrectly formatted. Use the camera to format the card (📖 100).

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Warning	Description
!🌡	Turn the camera off and wait for it to cool. If no action is taken, the camera will turn off automatically.
CARD ERROR	The memory card is not formatted for use in the camera. Format the card (📖 100).
	The memory card contacts require cleaning or the memory card is damaged. Clean the contacts with a soft, dry cloth. If the message is repeated, format the card (📖 100). If the message persists, replace the card.
	Incompatible memory card. Use a compatible card (📖 14).
	Camera malfunction. Contact a FUJIFILM dealer.
IN MEMORY FULL	The memory card or internal memory is full and pictures can not be recorded or copied. Delete pictures or insert a memory card with more free space.
SD MEMORY FULL	
INTERNAL MEMORY IS FULL INSERT A NEW CARD	
WRITE ERROR	• **Memory card error or connection error**: Reinsert the card or turn the camera off and then on again. If the message persists, contact a FUJIFILM dealer. • **Not enough memory remaining to record additional pictures**: Delete pictures or insert a memory card with more free space. • **The memory card or internal memory is not formatted**: Format the memory card or internal memory (📖 100).
READ ERROR	• **The file is corrupt or was not created with the camera**: The file can not be viewed. • **The memory card contacts require cleaning**: Clean the contacts with a soft, dry cloth. If the message is repeated, format the card (📖 100). If the message persists, replace the card. • **Camera malfunction**: Contact a FUJIFILM dealer.

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Warning	Description
FRAME NO. FULL	The camera has run out of frame numbers (current frame number is 999-9999). Format the memory card and select **RENEW** for **FRAME NO.** Take a picture to reset frame numbering to 100-0001, then select **CONTINUOUS** for **FRAME NO.** (📖 101).
PRESS AND HOLD THE DISP BUTTON TO DEACTIVATE SILENT MODE	An attempt was made to choose a flash mode or adjust the volume with the camera in silent mode. Exit silent mode before choosing a flash mode or adjusting the volume (📖 20).
TOO MANY FRAMES	• **A search has returned more than 30,000 results**: Choose a search that returns fewer results. • **More than 999 images are selected for deletion**: Choose fewer images.
PROTECTED FRAME	An attempt was made to delete, rotate, or add a voice memo to a protected picture. Remove protection and try again (📖 94).
640 CAN NOT CROP	640 pictures can not be cropped.
CAN NOT CROP	The picture is damaged or was not created with the camera.
M CANNOT EXECUTE	An attempt was made to create a resized copy at a size equal to or larger than the original. Choose a smaller size.
S CANNOT EXECUTE	
640 CANNOT EXECUTE	
CAN NOT ROTATE	An attempt was made to rotate a picture that can not be rotated.
CAN NOT ROTATE	Movies can not be rotated.
CANNOT EXECUTE	Red-eye removal can not be applied to the selected picture.
CANNOT EXECUTE	Red-eye removal can not be applied to movies.

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Warning	Description
NO CARD	No memory card inserted when COPY **COPY** is selected. Insert a memory card.
SD NO IMAGE	The source selected for COPY **COPY** contains no images. Select a different source.
IN NO IMAGE	
! ERROR	• **The voice memo file is corrupt**: The voice memo can not be played back. • **Camera malfunction**: Contact a FUJIFILM dealer.
DPOF FILE ERROR	The DPOF print order on the current memory card contains more than 999 images. Copy the pictures to internal memory and create a new print order.
CAN NOT SET DPOF	The picture can not be printed using DPOF.
CAN NOT SET DPOF	Movies can not be printed using DPOF.
COMMUNICATION ERROR	A connection error occurred while pictures were being printed or copied to a computer or other device. Confirm that the device is turned on and that the USB cable is connected.
PRINTER ERROR	Printer out of paper or ink, or other printer error. Check printer (see printer manual for details). To resume printing, turn the printer off and then turn it back on.
PRINTER ERROR RESUME?	Printer out of paper or ink, or other printer error. Check printer (see printer manual for details). If printing does not resume automatically, press **MENU/OK** to resume.
CANNOT BE PRINTED	An attempt was made to print a movie, a picture not created with the camera, or a picture in a format not supported by the printer. Movies and some pictures created with other devices can not be printed; if the picture is a still picture created with the camera, check the printer manual to confirm that the printer supports the JFIF-JPEG or Exif-JPEG format. If it does not, the pictures can not be printed.

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Internal Memory/Memory Card Capacity

The following table shows the recording time or number of pictures available at different image sizes. All figures are approximate; file size varies with the scene recorded, producing wide variations in the number of files that can be stored. The number of exposures or length remaining may not diminish at an even rate. A limited number of test pictures can be taken when no memory card is inserted.

Medium		Internal memory (approx. 25 MB)		4 GB		8 GB	
		FINE	NORMAL	FINE	NORMAL	FINE	NORMAL
Photographs	L 4:3	3	6	620	990	1250	1990
	L 16:9	5	8	830	1310	1670	2640
	M 4:3	6	12	990	1930	1990	3880
	M 16:9	8	15	1300	2530	2620	5080
	S 4:3	12	23	1930	3640	3880	7320
	S 16:9	22	33	3540	5160	7110	10370
Movie	1920[1]	12 sec.		38 min.		76 min.	
	1280[1]	16 sec.		49 min.		98 min.	
	640[2]	40 sec.		115 min.		232 min.	
	640×480[3]	30 sec.		85 min.		172 min.	
	320×240[3]	62 sec.		172 min.		345 min.	
	320×112[3]	31 sec.		86 min.		172 min.	

1 Use a CLASS 4 card or better. Individual movies can not exceed 29 minutes in length.
2 Individual movies can not exceed 115 minutes in length.
3 Use a CLASS 4 card or better. Individual movies can not exceed 30 seconds in length.

Temperature Warning

The camera will turn off automatically before its temperature or the temperature of the battery rise above safe limits. Pictures taken when a temperature warning is displayed may show higher level of noise, or brightness of them may be varied (over-exposed images or under-exposed images). Turn the camera off and wait it to cool before turning it on again (📖 113, 117).

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Specifications

System	
Model	Digital Camera FinePix HS30EXR
Effective pixels	16 million
Image sensor	½-in., EXR CMOS with primary color filter
Storage media	• Internal memory (approx. 25 MB) • SD/SDHC/SDXC memory cards
File system	Compliant with **D**esign Rule for **C**amera **F**ile System (DCF), Exif 2.3, and **D**igital **P**rint **O**rder **F**ormat (DPOF)
File format	• **Still pictures:** Exif 2.3 JPEG (compressed); RAW (original RAF format, special-purpose software required); RAW+JPEG available • **Movies:** MOV (H.264) • **Audio:** WAV
Image size (pixels)	• L **4:3**: 4,608×3,456 • L **3:2**: 4,608×3,072 • L **16:9**: 4,608×2,592 • M **4:3**: 3,264×2,448 • M **3:2**: 3,264×2,176 • M **16:9**: 3,264×1,840 • S **4:3**: 2,304×1,728 • S **3:2**: 2,304×1,536 • S **16:9**: 1,920×1,080 • PANORAMA **MOTION PANORAMA 360**: 1,624×11,520 (tall)/11,520×1,080 (wide) • PANORAMA **MOTION PANORAMA 180**: 1,624×5,760 (tall)/5,760×1,080 (wide) • PANORAMA **MOTION PANORAMA 120**: 1,624×3,840 (tall)/3,840×1,080 (wide)
Digital zoom	About 1.4×/2× with intelligent digital zoom (up to 42×/60× when combined with optical zoom)
Lens **Focal length**	Fujinon 30× optical zoom lens, F2.8 (wide angle)–5.6 (telephoto) f=4.2 mm–126.0 mm (35-mm format equivalent: 24 mm– 720 mm)
Aperture	F2.8–F11 (wide angle)/F5.6–F11 (telephoto) in increments of ⅓ EV; can be set manually or automatically
Focus range (distance from front of lens)	• Approx. 45 cm (1.4 ft.)–infinity (wide angle); 3 m (9.8 ft.)–infinity (telephoto) • **Macro**: approx. 7 cm–3 m/0.2 ft.–9.8 ft. (wide angle); 2 m–3.5 m/6.6 ft.–11.4 ft. (telephoto) • **Super macro**: approx. 1 cm–1 m/0.4 in.–3.3 ft.
Sensitivity	Standard output sensitivity equivalent to ISO 100, 200, 400, 800, 1600, 3200, 6400 (image size M or S), 12800 (image size S); **AUTO**, **AUTO (400)**, **AUTO (800)**, **AUTO (1600)**, **AUTO (3200)**

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System	
Metering	256-segment **t**hrough-**t**he-**l**ens (TTL) metering; MULTI, SPOT, AVERAGE
Exposure control	Programmed AE (with program shift), shutter-priority AE, aperture-priority AE, and manual exposure
Exposure compensation	–2 EV – +2 EV in increments of ⅓ EV (except , , **M**, and)
Picture stabilization	Optical stabilization (image-sensor shift)
Shutter speed (combined mechanical and electronic shutter)	• : 1/4 s–1/4,000 s • : 4 s–1/1,000 s • : 4 s–1/2 s • **P**, **S**, **A**: 4 s–1/4,000 s • **M**: 30 s–1/4,000 s • **Other modes**: 1/4 s–1/4,000 s
Continuous	• : max. 200 frames; frame rate can be selected from 11, 8, 5, and 3 fps (The frame rate varies depending on the shooting conditions or numbers of frames in continuous shooting.) • : 16 or 6 frames (RAW+JPEG/RAW: max. 6 frames); frame rate can be selected from 11, 8, 5, and 3 fps • : 3 frames (selected exposure, overexposure, underexposure) • : 3 frames (PROVIA, Velvia, ASTIA) • : 3 frames (100%, 200%, 400%)
Focus	• **Mode**: Single AF, continuous AF, manual focus with one-press AF • **Focus-area selection**: Center, multi, area, tracking • **Autofocus system**: Contrast-detect TTL AF with AF-assist illuminator
White balance	Automatic scene detection; six manual preset modes for direct sunlight, shade, daylight fluorescent, warm white fluorescent, cool white fluorescent, and incandescent lighting; custom white balance
Self-timer	Off, 2 sec., 10 sec.; auto shutter release (and)
Flash	Manual pop-up flash; effective range when sensitivity is set to **AUTO (800)** is approx. 30 cm–7.1 m/1 ft.–23.3 ft. (wide angle), 2.0 m–3.8 m/6.6 ft.–12.5 ft. (telephoto)
Flash modes	Auto, forced flash, off, slow synchro (red-eye removal off); auto with red-eye removal, forced flash with red-eye removal, off, slow sync with red-eye removal (red-eye removal on)

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System	
Electronic viewfinder (EVF)	0.26-in./0.7 cm, 920k-dot color LCD viewfinder; frame coverage approx. 100%
Monitor	3.0-in./7.6 cm, 460k-dot color LCD monitor; frame coverage approx. 100%
Movies	• FULL HD **1920**: 1,920×1,080, 30 fps • 640: 640×480 (VGA), 30 fps • HS **320×240**: 320×240, 160 fps • HD **1280**: 1,280×720, 30 fps • HS **640×480**: 640×480, 80 fps • HS **320×112**: 320×112, 320 fps **Note**: FULL HD, HD, and 640 movies are recorded with stereo sound.

Input/output terminals	
A/V OUT (audio/video output)	NTSC or PAL output with monaural sound
HDMI output	HDMI Mini Connector
Digital input/output	USB 2.0 High-Speed; MTP/PTP

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Power supply/other	
Power sources	NP-W126 rechargeable battery
Battery life (approximate number of frames that can be taken with a fully-charged battery)	<table><tr><th>Battery type</th><th>Approximate number of frames</th></tr><tr><td>NP-W126 (type supplied with camera)</td><td>600</td></tr></table> CIPA standard, measured in 📷 (auto) mode using battery supplied with camera and SD memory card. **Note**: Number of shots that can be taken with battery varies with battery charge level and will decline at low temperatures.
Camera dimensions	130.6 mm × 96.6 mm × 126.0 mm/5.1 in. × 3.8 in. × 4.9 in. (W × H × D), excluding projections
Shooting weight	Approx. 687 g/24.2 oz., including batteries and memory card
Camera weight	Approx. 637 g/22.4 oz., excluding batteries, accessories, and memory cards
Operating conditions	• **Temperature**: 0 °C – +40 °C/+32 °F – +104 °F • **Humidity**: 10% – 80% (no condensation)

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NP-W126 rechargeable battery	
Nominal voltage	7.2 V DC
Nominal capacity	1260 mAh
Operating temperature	0 °C – +40 °C/+32 °F – +104 °F
Dimensions (W × H × D)	36.4 mm × 47.1 mm × 15.7 mm/1.4 in. × 1.9 in. × 0.6 in.
Weight	Approx. 47 g/1.7 oz.

BC-W126 battery charger	
Rated input	100 V–240 V AC, 50/60 Hz
Input capacity	13 – 21 VA
Rated output	8.4 V DC, 0.6 A
Supported batteries	NP-W126 rechargeable batteries
Charging time	Approx. 150 minutes (+25 °C/+77 °F)
Operating temperature	5 °C – +40 °C/+41 °F – +104 °F
Dimensions (W × H × D)	65 mm × 91.5 mm × 28 mm/2.5 in. × 3.6 in. × 1.1 in., excluding projections
Weight	Approx. 77 g/2.7 oz., excluding battery

Weight and dimensions vary with the country or region of sale.

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Color Television Systems

NTSC (**N**ational **T**elevision **S**ystem **C**ommittee) is a color television telecasting specification adopted mainly in the U.S.A., Canada, and Japan. PAL (**P**hase **A**lternation by **L**ine) is a color television system adopted mainly in European countries and China.

Notices

- Specifications subject to change without notice; for the latest information, visit *http://www.fujifilm.com/products/digital_cameras/index.html*. FUJIFILM shall not be held liable for damages resulting from errors in this manual.
- Although the monitor is manufactured using advanced high-precision technology, small bright points and anomalous colors (particularly in the vicinity of text) may appear. This is normal for this type of monitor and does not indicate a malfunction; images recorded with the camera are unaffected.
- Digital cameras may malfunction when exposed to strong radio interference (e.g., electric fields, static electricity, or line noise).
- Due to the type of lens used, some distortion may occur at the periphery of images. This is normal.

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Memo

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FUJIFILM

FUJIFILM Corporation
7-3, AKASAKA 9-CHOME, MINATO-KU, TOKYO 107-0052, JAPAN
http://www.fujifilm.com/products/digital_cameras/index.html

Please contact your local distributor for repairs and technical support. (see Worldwide Network list)

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Shooting Mode and Camera Settings

The options available in each shooting mode are listed below.

		EXR				Adv.									SP1/SP2																		
	OFF		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔[1]	✔[1]	✔	✔	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]				
			✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔										✔[1]	✔[1]		
			✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔			✔	✔													
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OFF		✔	✔	✔		✔			✔			✔	✔	✔	✔		✔	✔	✔	✔		✔				✔	✔	✔			✔		
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ON		✔	✔	✔	✔[1]	✔	✔[1]	✔[1]	✔	✔[1]	✔[1]	✔	✔	✔	✔		✔[1]	✔	✔			✔[1]	✔[1]	✔	✔	✔[1]	✔	✔	✔		✔[1]	✔[1]	
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		✔	✔	✔	✔	✔						✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	
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		EXR				Adv.					P	S	A	M	SP1/SP2																	
		EXR auto								HDR																						
SCN			✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔		✔	✔				✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	
ISO	AUTO	✔[1]					✔[1]	✔[1]			✔[1]					✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	
	AUTO (3200)			✔	✔	✔			✔	✔		✔	✔	✔																			
	AUTO (1600)			✔	✔	✔			✔	✔		✔	✔	✔																			
	AUTO (800)		✔	✔	✔	✔			✔	✔		✔	✔	✔																			
	AUTO (400)		✔	✔	✔	✔			✔	✔		✔	✔	✔																			
	12800								✔			✔	✔	✔	✔																		
	6400								✔			✔	✔	✔	✔																		
	3200			✔					✔			✔	✔	✔	✔																		
	1600			✔					✔			✔	✔	✔	✔																		
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	100		✔	✔					✔			✔	✔	✔	✔																		
AE[3]		✔[1]	✔	✔	✔	✔[1]	✔[1]	✔[1]	✔	✔[1]	✔[1]	✔	✔	✔	✔	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]
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			✔	✔	✔				✔			✔	✔	✔	✔																		
AF[6]		✔[1]	✔	✔	✔	✔	✔[1]	✔[1]	✔	✔[1]	✔[1]	✔	✔	✔	✔	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	
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AF[7]	MF2	✔[1]	✔	✔	✔	✔						✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔[8]
	MF1		✔	✔	✔	✔	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔[8]
	MF		✔	✔	✔	✔						✔	✔	✔	✔	✔	✔	✔				✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔[8]
WB			✔	✔	✔							✔	✔	✔	✔																		✔

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		EXR				Adv.									SP1/SP2																	
	AUTO	✔																														
	L		✔			✔			✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	M	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	S	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔[1]	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	AUTO	✔[1]			✔	✔[1]	✔[1]	✔[1]		✔[1]	✔[1]	✔	✔	✔		✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]	✔[1]
	3200		✔[1]	✔[1]	✔			✔[1]				✔	✔	✔	✔																		
	2000				✔							✔	✔	✔	✔																		
	1600				✔							✔	✔	✔	✔																		
	800				✔																												
	400				✔																												
		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
			✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔																
			✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔																
		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
			✔	✔	✔						✔	✔	✔	✔																			
			✔	✔	✔						✔	✔	✔	✔																			
			✔	✔	✔						✔	✔	✔	✔																			
			✔	✔	✔						✔	✔	✔	✔																			
			✔	✔	✔						✔	✔	✔	✔																			
		✔	✔	✔	✔	✔					✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
		✔	✔	✔	✔	✔					✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
		✔																															
		✔[2]	✔	✔	✔	✔	✔	✔	✔	✔[3]	✔[3]	✔	✔	✔	✔	✔	✔	✔	✔[2]	✔[2]	✔[2]	✔[3]	✔[3]	✔	✔	✔[3]	✔	✔	✔	✔	✔[3]	✔[3]	✔
		✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔	✔	✔	✔	✔	✔					✔	✔		✔	✔	✔	✔			

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		EXR				Adv.					P	S	A	M	SP1/SP2																	
	1920	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	1280	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	640	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	640×480	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	320×240	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	320×112	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
			✔	✔							✔	✔	✔	✔																		
			✔	✔							✔	✔	✔	✔																		
			✔	✔	✔						✔	✔	✔	✔																		
		✔[1]	✔	✔	✔	✔	✔	✔	✔	✔		✔		✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔	✔	✔	✔
			✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔
			✔	✔	✔	✔	✔	✔	✔	✔		✔		✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔	✔	✔	✔
			✔	✔	✔	✔	✔	✔	✔	✔[1]	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔
	OFF		✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔[1]	✔	✔	✔	✔	✔	✔	✔	✔
		✔	✔	✔	✔	✔	✔	✔	✔	✔[3]	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔[3]	✔[3]	✔	✔	✔	✔[3]	✔	✔	✔	✔[3]	✔[3]	✔	✔
		✔	✔	✔	✔	✔	✔[3]	✔[3]	✔[3]	✔[3]	✔[3]	✔	✔	✔	✔	✔[3]	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

1 Optimized for selected shooting mode.
2 **ON** selected automatically.
3 **OFF** selected automatically.
4 Flash disabled in all shooting modes if lowered.
5 [⊙] (MULTI) selected automatically when Intelligent Face Detection is on.
6 Camera focuses on faces when Intelligent Face Detection is on.
7 Intelligent Face Detection turns off automatically in manual focus mode.
8 Fixed at settings before recording a movie.

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